

Lab Exercise Demonstration 1 (Exercises 1.1-2.4) (Week 3)

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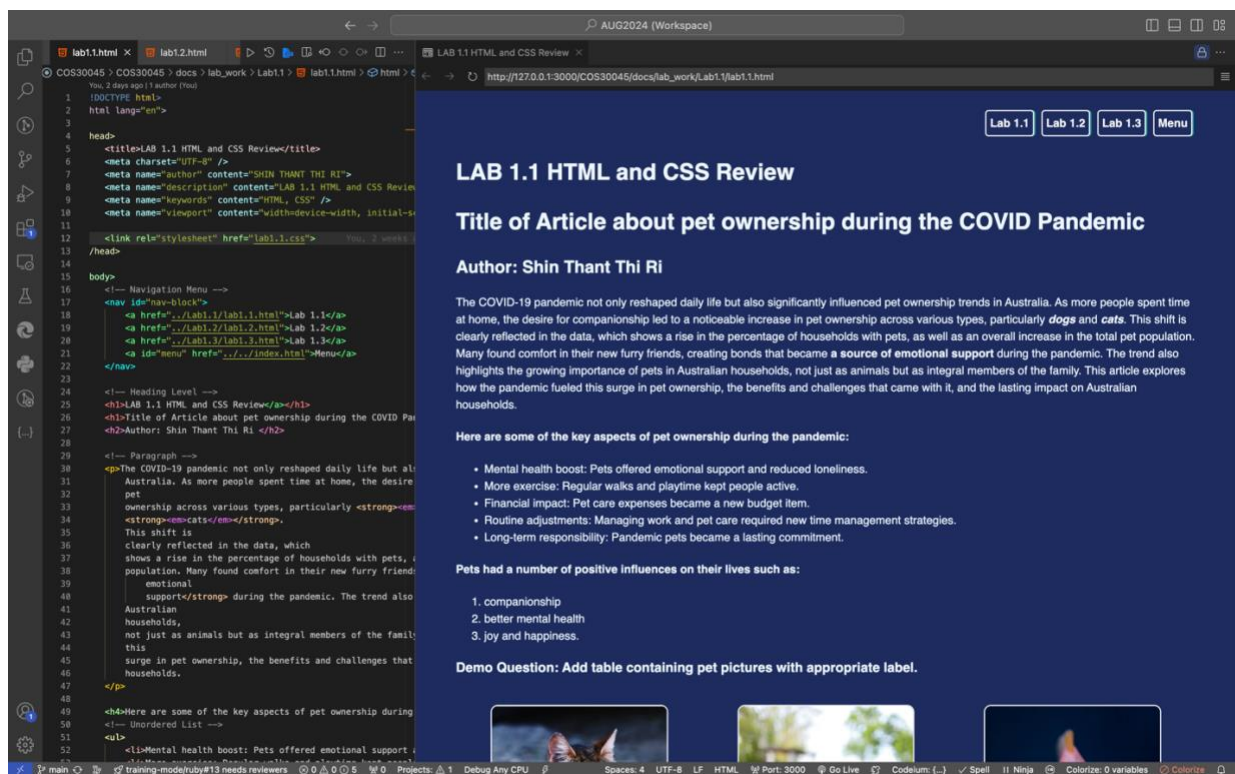
Lecturer: Mr. Mohamad Faizal Alias

GitHub Link: <https://github.com/sharin-io/COS30045>

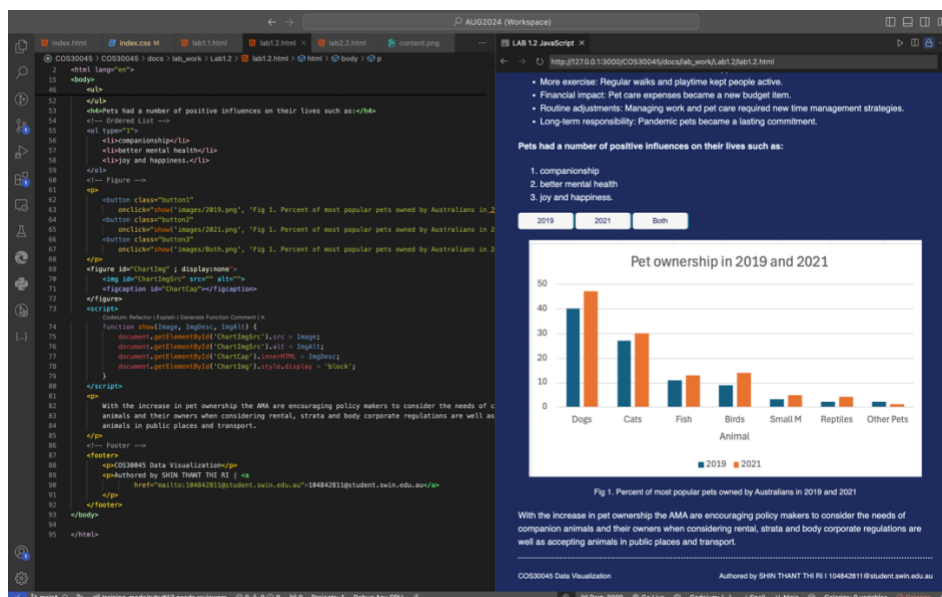
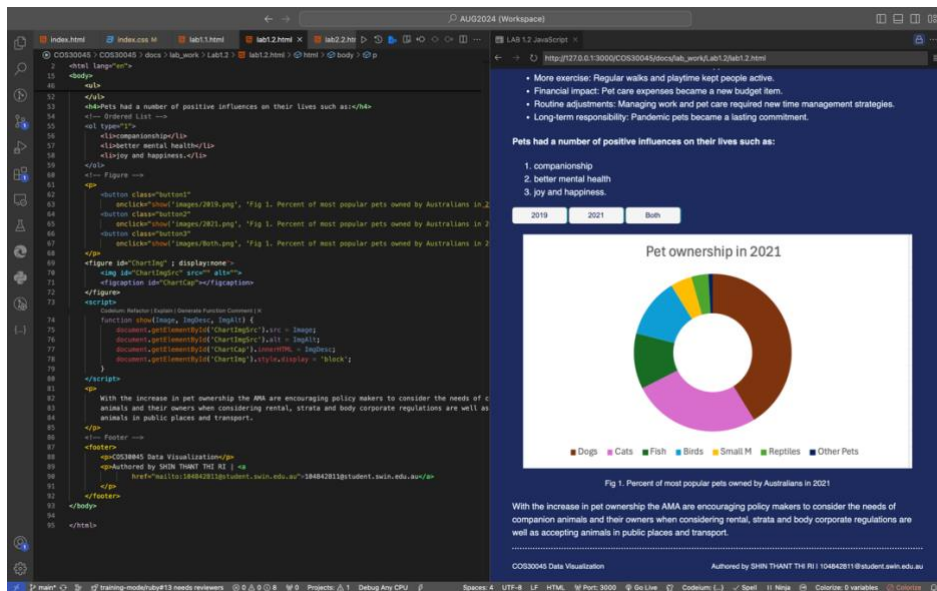
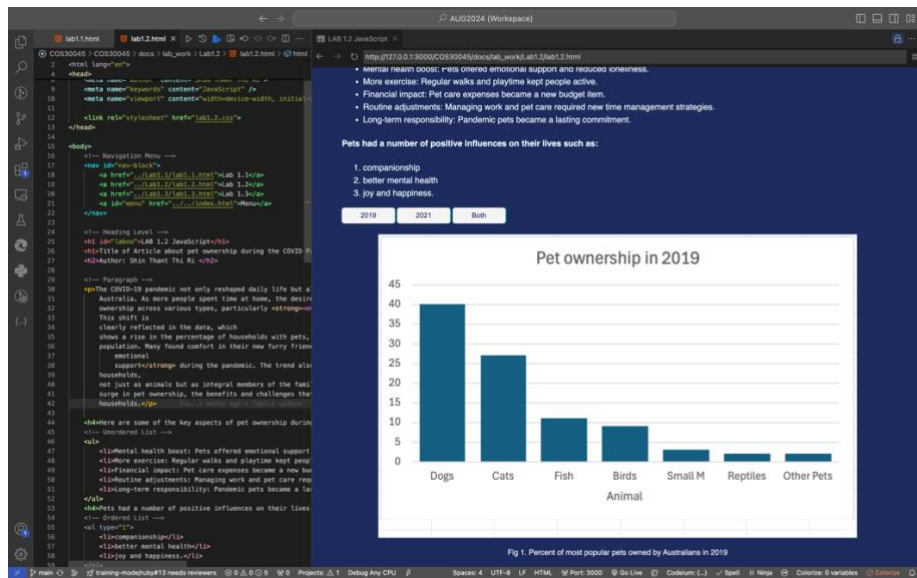
Screenshots of webpages for Lab Task 1.1 to 2.4

Lab 1

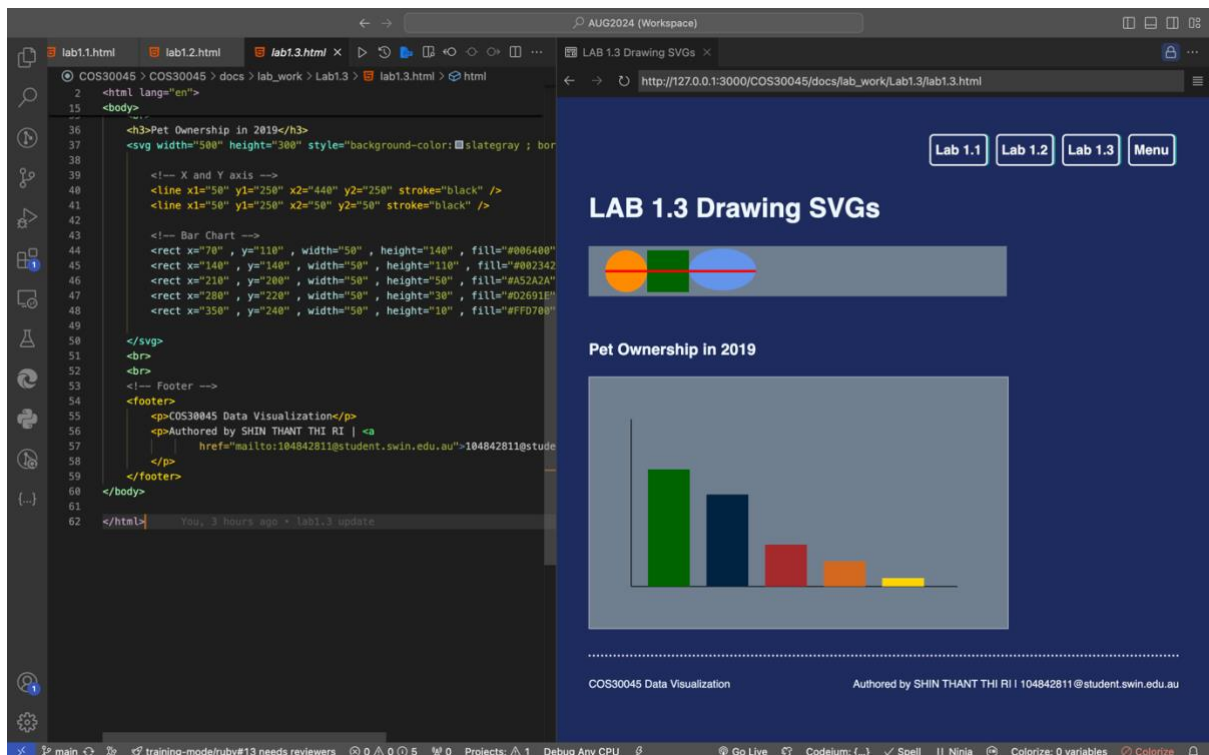
Lab 1.1



Lab 1.2



Lab 1.3



LAB 1.3 Drawing SVGs

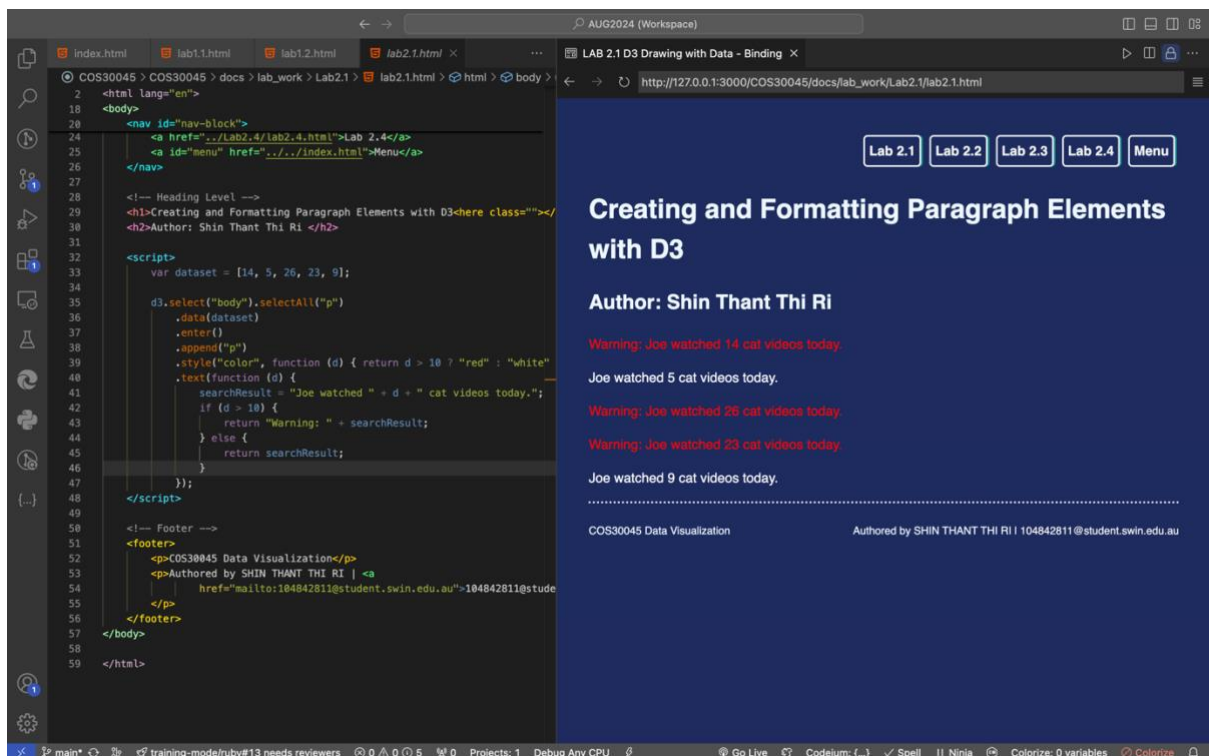
Pet Ownership in 2019

COS30045 Data Visualization

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Lab 2

Lab 2.1



LAB 2.1 D3 Drawing with Data - Binding

Creating and Formatting Paragraph Elements with D3

Author: Shin Thant Thi Ri

Warning: Joe watched 14 cat videos today.

Joe watched 5 cat videos today.

Warning: Joe watched 26 cat videos today.

Warning: Joe watched 23 cat videos today.

Joe watched 9 cat videos today.

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Lab 2.2

lab2.1.html lab1.html lab2.1.html lab2.2.html content.png

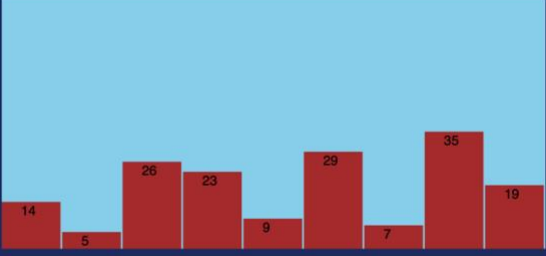
COS30045 > COS30045 > docs > lab_work > Lab 2.2 > lab2.2.html > html > body > script

2 <html lang="en">
16 <body>
27 <h1>LAB 2.2 D3 Drawing with Data - Bar Chart</h1>
28 <h2>Author: Shin Thant Thi Ri </h2>
29 <p>Demo Question: Modifying the text labels to display just below each bar.</p>
30 <script>
31 var w = 650;
32 var h = 380;
33
34 var padding = 2;
35 var dataset = [14, 5, 26, 23, 9, 29, 7, 35, 19];
36 var label = 3;
37
38
39 var svg = d3.select("body")
40 .append("svg")
41 .attr("width", w)
42 .attr("height", h)
43 .style("background-color", d3.color("skyblue"));
44
45 svg.selectAll("rect")
46 .data(dataset)
47 .enter()
48 .append("rect")
49 .attr("x", function(d, i) { return i * (w / dataset.length); })
50 .attr("y", function(d) { return h - (d * 4); })
51 .attr("width", function(d) { return (w / dataset.length - padding); })
52 .attr("height", function(d) { return (d * 4); })
53 .style("fill", d3.color("brown"));
54
55 svg.selectAll("text")
56 .data(dataset)
57 .enter()
58 .append("text")
59 .text(function(d) { return d; })
60 .attr("fill", "black")
61 .attr("x", function(d, i) { return i * (w / dataset.length) + 23; })
62 .attr("y", function(d) { return h - (d * 4) + 16; });
63
64 </script>
65
66 <p id="chart"></p>
67
68 <!-- Footer -->
69 <footer>
70 <p>COS30045 Data Visualization
71
72 </p>
73 </footer>
74

LAB 2.2 D3 Drawing with Data - Bar Chart

Author: Shin Thant Thi Ri

Demo Question: Modifying the text labels to display just below each bar.



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Lab 2.3


lab2.1.html lab2.2.html lab2.1.html lab2.3.html cont

COS30045 > COS30045 > docs > lab_work > Lab 2.3 > lab2.3.html > html > body > script > |@ dataset

2 <html lang="en">
16 <body>
27 <h1>LAB 2.3 D3 Drawing with Data - Scatter Plot</h1>
28 <h2>Author: Shin Thant Thi Ri </h2>
29
30 <script>
31 var w = 780;
32 var h = 280;
33
34 var svg = d3.select("body")
35 .append("svg")
36 .attr("width", w)
37 .attr("height", h)
38
39 svg.append("rect")
40 .attr("x", 0)
41 .attr("y", 0)
42 .attr("width", w)
43 .attr("height", h)
44 .style("fill", "skyblue") // No fill color for the box
45 .style("stroke", "orange") // Border color of the box
46 .style("stroke-width", 4); // Border thickness
47
48 var dataset = [
49 [88, 28, 51],
50 [489, 98, 15],
51 [250, 38, 4],
52 [180, 33, 8],
53 [330, 95, 6],
54 [410, 12, 14],
55 [475, 44, 7],
56 [25, 61, 8],
57 [85, 21, 13],
58 [220, 88, 9]
59];
60
61 svg.selectAll("circle")
62 .data(dataset)
63 .enter()
64 .append("circle")
65 .attr("cx", function(d) { return d[0]; }) // Set x position
66 .attr("cy", function(d) { return d[1]; }) // Set y position
67
68 .attr("r", function(d) { return d[2]; })
69 .attr("fill", "rgb(0,0,255)"); // Fill color
70
71 svg.selectAll("text")
72 .data(dataset)
73 .enter()
74 .append("text")
75 .text(function(d) { return d[0] + "," + d[1]; })
76 .attr("x", function(d) { return d[0] - 10; })
77 .attr("y", function(d) { return d[1]; })
78

LAB 2.3 D3 Drawing with Data - Scatter Plot

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