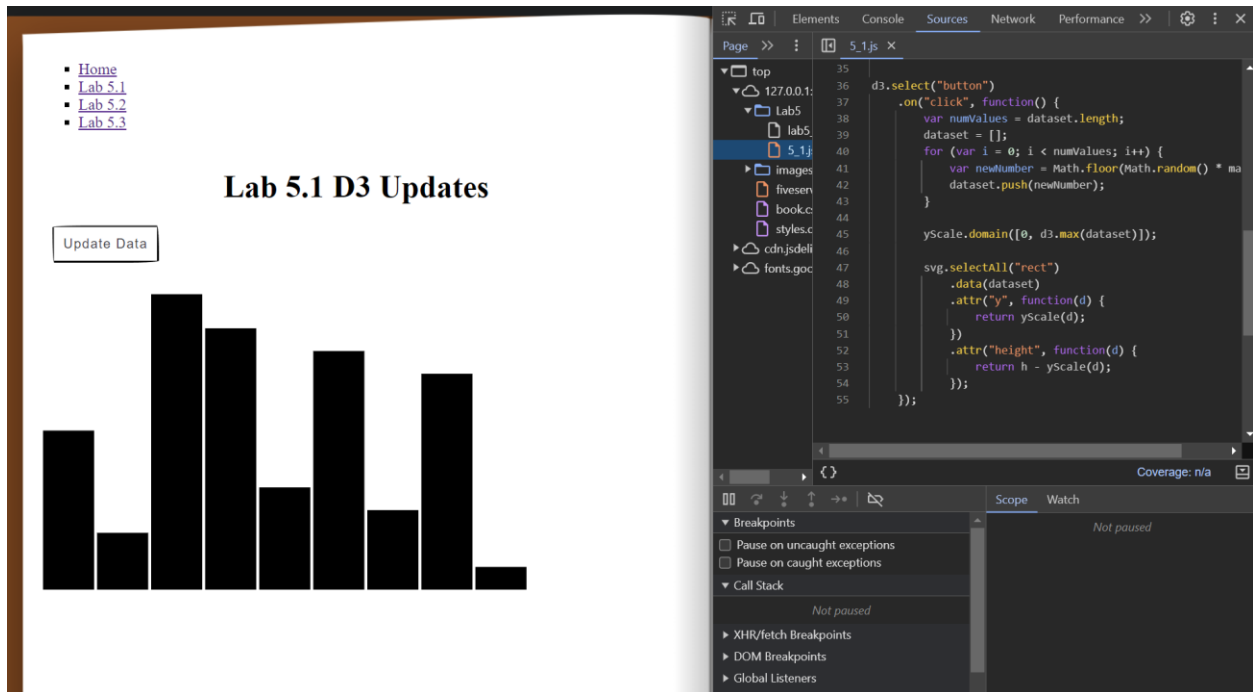


Demonstration 3

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Lab 5.1



Lab 5.2

- Home
- Lab 5.1
- Lab 5.2
- Lab 5.3

Lab 5.2 D3 Transitions

Update
Transition 1
Transition 2

5.2.js

```

62 d3.select("button#transition2")
63 .on("click", function() {
64     var numValues = dataset.length;
65     dataset = [];
66     for (var i = 0; i < numValues; i++) {
67         var newNumber = Math.floor(Math.random() * maxValue);
68         dataset.push(newNumber);
69     }
70
71     yScale.domain([0, d3.max(dataset)]);
72
73     svg.selectAll("rect")
74     .data(dataset)
75     .transition()
76     .delay(1000)
77     .duration(2000)
78     .ease(d3.easeElasticOut)
79     .attr("y", function(d) {
80         return yScale(d);
81     })
82     .attr("height", function(d) {
83         return h - yScale(d);
84     });
85 });
86
87
88 d3.select("button#transition3")
89 .on("click", function() {
90     var numValues = dataset.length;
91     dataset = [];
92     for (var i = 0; i < numValues; i++) {
93         var newNumber = Math.floor(Math.random() * maxValue);
94         dataset.push(newNumber);
95     }
96
97     yScale.domain([0, d3.max(dataset)]);
98
99     svg.selectAll("rect")

```

Lab 5.3

- Home
- Lab 5.1
- Lab 5.2
- Lab 5.3

Lab 5.3 D3 Adding & Removing

Add
Remove

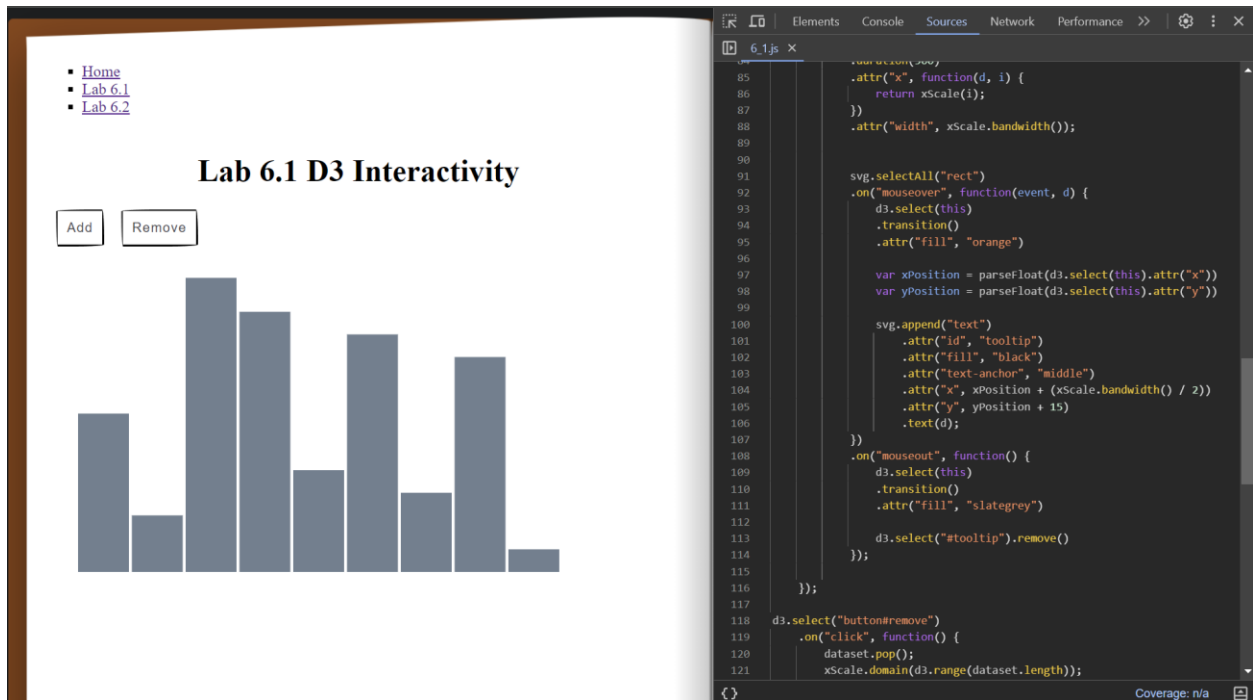
5.3.js

```

35 d3.select("button#add")
36 .on("click", function() {
37     var newNumber = Math.floor(Math.random() * maxValue);
38     dataset.push(newNumber);
39     xScale.domain(d3.range(dataset.length));
40
41     var bars = svg.selectAll("rect")
42     .data(dataset);
43
44     bars.enter()
45     .append("rect")
46     .attr("x", 0)
47     .attr("y", function(d) {
48         return h - yScale(d);
49     })
50     .attr("width", xScale.bandwidth())
51     .attr("height", function(d) {
52         return yScale(d);
53     })
54     .merge(bars)
55     .transition()
56     .duration(500)
57     .attr("x", function(d, i) {
58         return xScale(i);
59     })
60     .attr("width", xScale.bandwidth());
61 });
62
63
64 d3.select("button#remove")
65 .on("click", function() {
66     dataset.pop();
67     xScale.domain(d3.range(dataset.length));
68
69     var bars = svg.selectAll("rect")
70     .data(dataset);
71
72     bars.exit()

```

Lab 6.1



Lab 6.2

