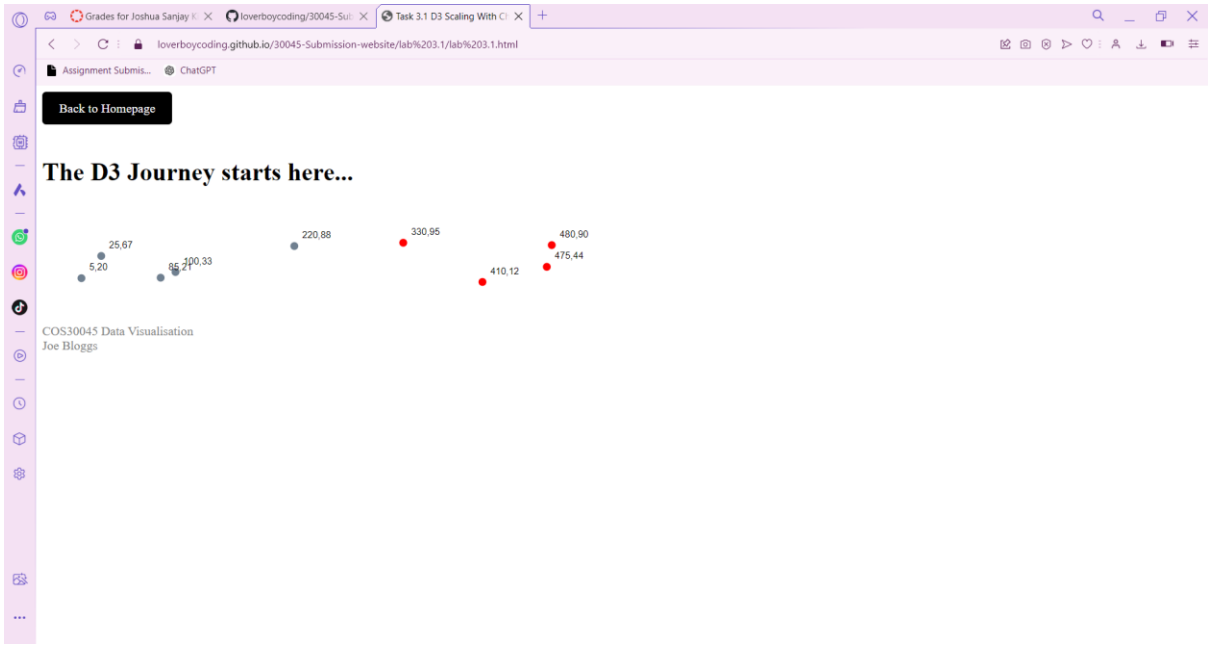
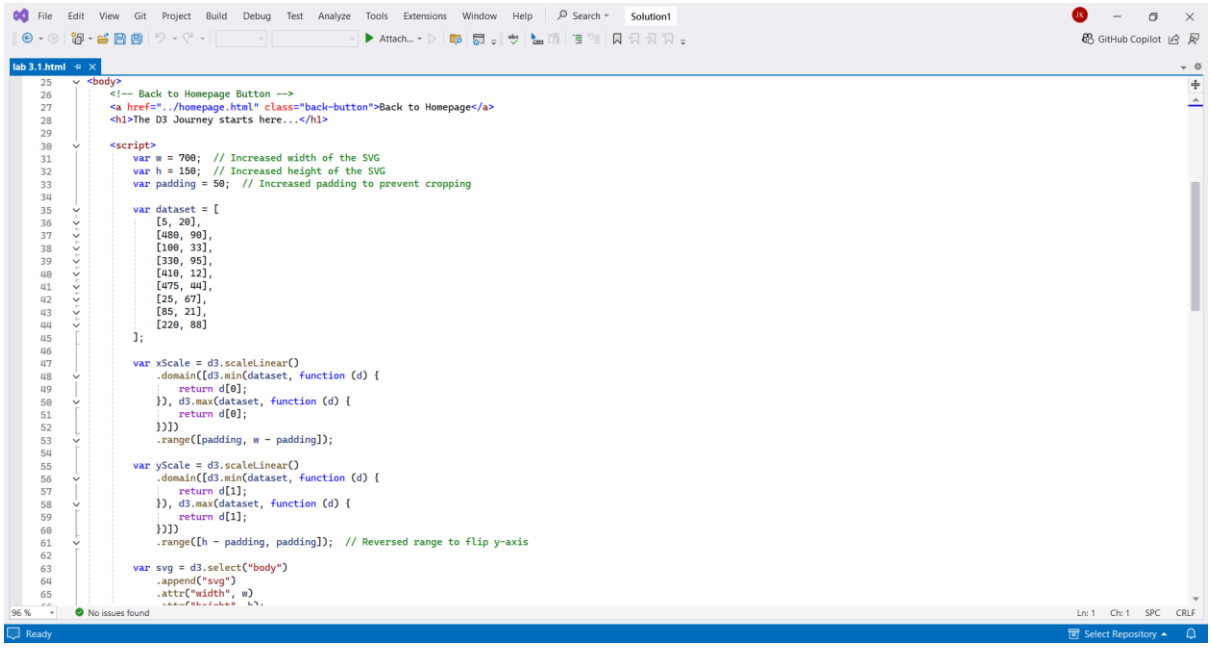
JOSHUA SANJAY KING

J23039507 / 105282612

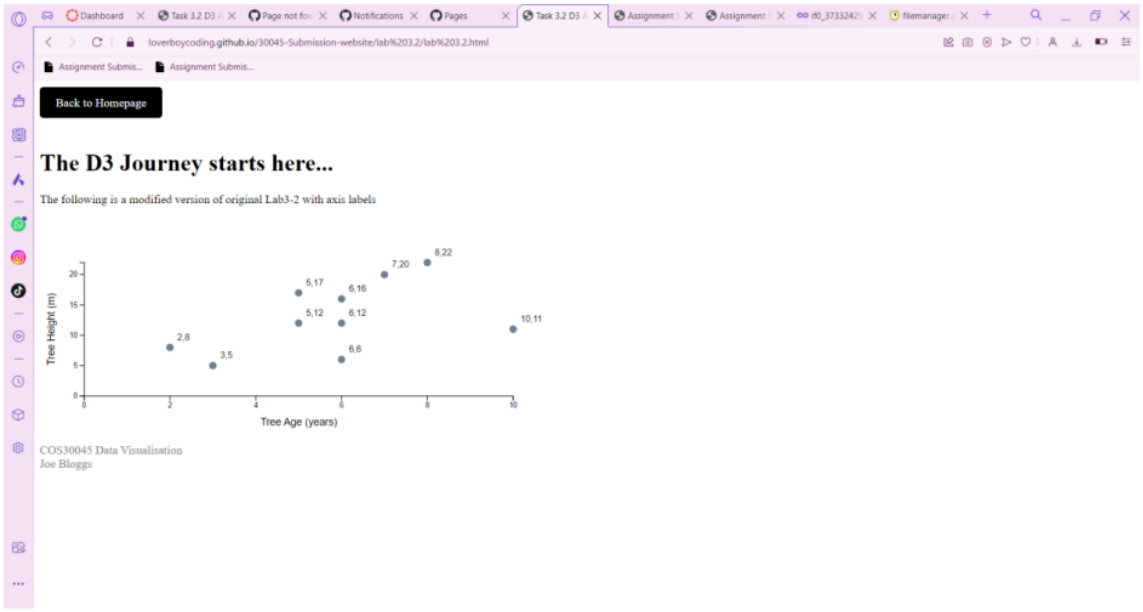
https://loverboycoding.github.io/30045-Submission-website/index.html

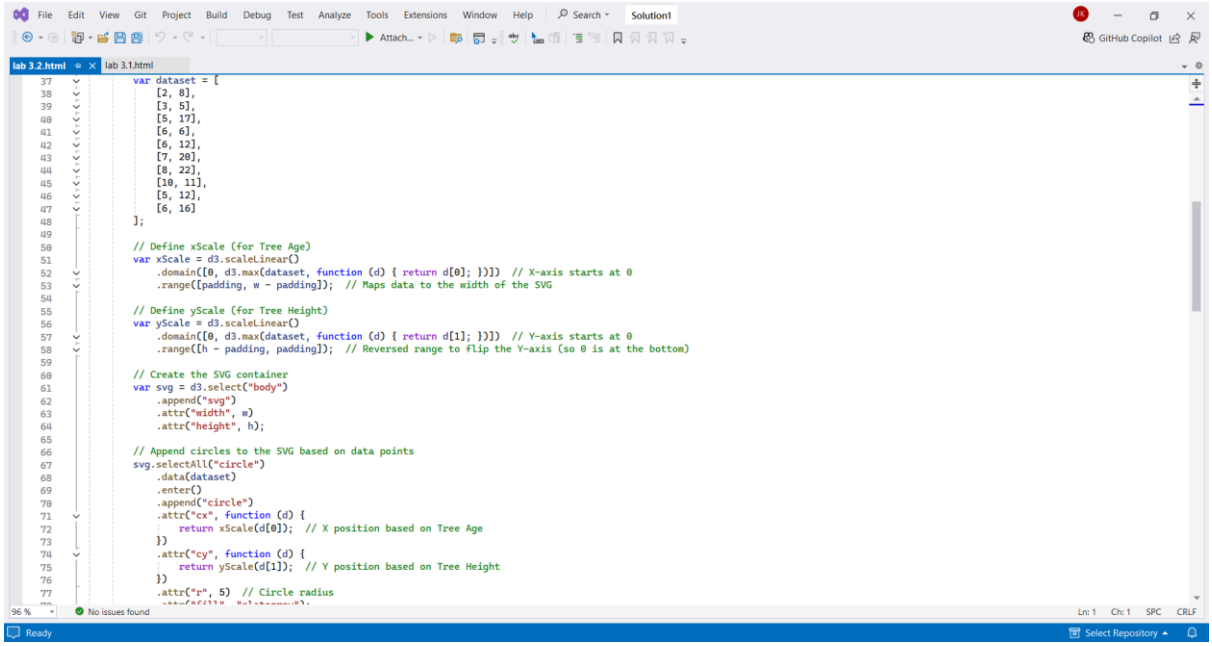
LAB 3.1





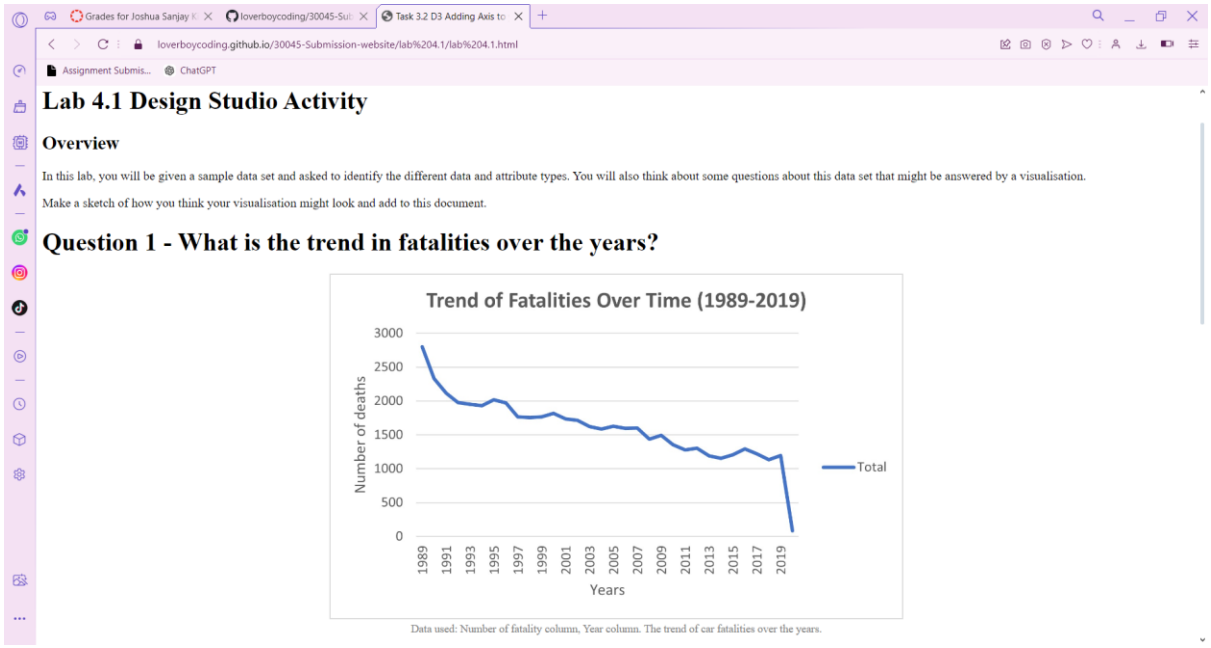
Lab 3.2 modified

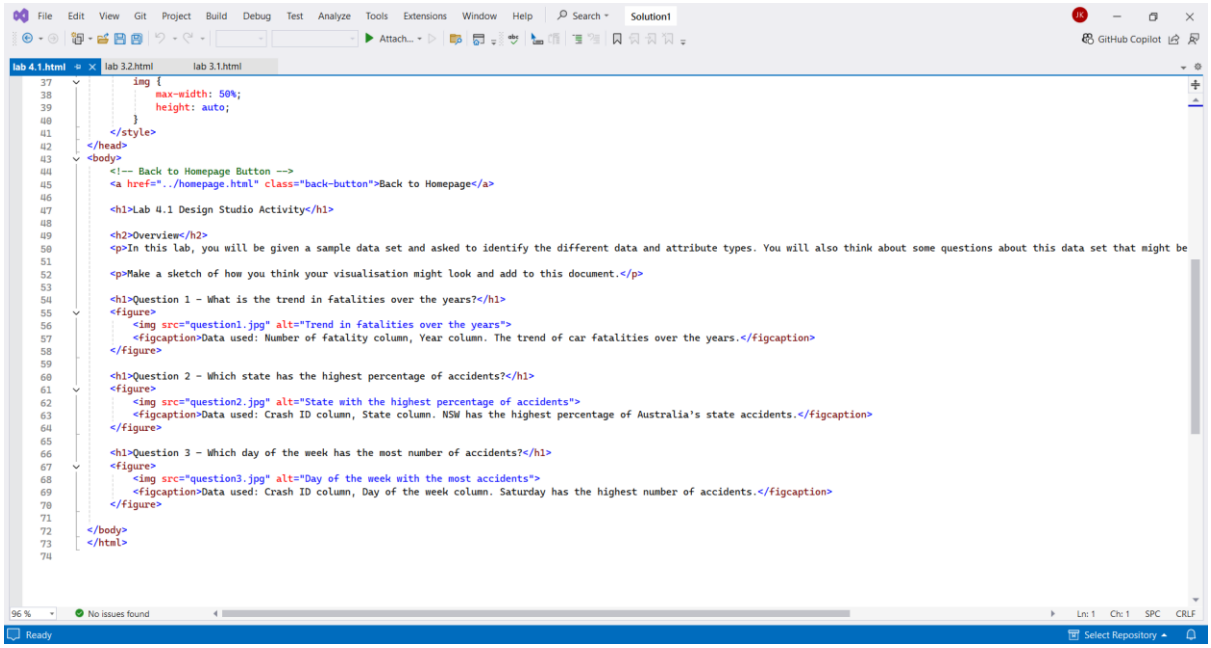




```
var dataset = [
    [2, 8],
    [3, 5],
    [5, 17],
    [6, 6],
    [6, 12],
    [7, 20],
    [8, 22],
    [10, 11],
    [5, 12],
    [6, 16]
];

// Define xScale (for Tree Age)
var xScale = d3.scaleLinear()
    .domain([0, d3.max(dataset, function (d) { return d[0]; })])  // X-axis starts at 0
    .range([padding, w - padding]);  // Maps data to the width of the SVG

// Define yScale (for Tree Height)
var yScale = d3.scaleLinear()
    .domain([0, d3.max(dataset, function (d) { return d[1]; })])  // Y-axis starts at 0
    .range([h - padding, padding]);  // Reversed range to flip the Y-axis (so 0 is at the bottom)

// Create the SVG container
var svg = d3.select("body")
    .append("svg")
    .attr("width", w)
    .attr("height", h);

// Append circles to the SVG based on data points
svg.selectAll("circle")
    .data(dataset)
    .enter()
    .append("circle")
    .attr("cx", function (d) {
        return xScale(d[0]);  // X position based on Tree Age
    })
    .attr("cy", function (d) {
        return yScale(d[1]);  // Y position based on Tree Height
    })
    .attr("r", 5)  // Circle radius
```

Lab 4.1


Grades for Joshua Sanjay
loverboycoding/30045-Sut
Task 3.2 D3 Adding Axis to
loverboycoding.github.io/30045-Submission-website/lab%204.1/lab%204.1.html
Assignment Submis...
ChatGPT
Lab 4.1 Design Studio Activity
Overview
In this lab, you will be given a sample data set and asked to identify the different data and attribute types. You will also think about some questions about this data set that might be answered by a visualisation.
Make a sketch of how you think your visualisation might look and add to this document.
Question 1 - What is the trend in fatalities over the years?
Trend of Fatalities Over Time (1989-2019)
Number of deaths
3000
2500
2000
1500
1000
500
0
1989
1991
1993
1995
1997
1999
2001
2003
2005
2007
2009
2011
2013
2015
2017
2019
Years
Total
Data used: Number of fatality column, Year column. The trend of car fatalities over the years.


File Edit View Git Project Build Debug Test Analyze Tools Extensions Window Help
Search
Solution1
GitHub Copilot
Attach...
lab 4.1.html
lab 3.2.html
lab 3.1.html
img {
max-width: 50%;
height: auto;
}
</style>
</head>
<body>
<!-- Back to Homepage Button -->
Back to Homepage
<h1>Lab 4.1 Design Studio Activity</h1>
<h2>Overview</h2>
In this lab, you will be given a sample data set and asked to identify the different data and attribute types. You will also think about some questions about this data set that might be
Make a sketch of how you think your visualisation might look and add to this document.
<h1>Question 1 - What is the trend in fatalities over the years?</h1>
<figure>
<img src="question1.jpg" alt="Trend in fatalities over the years">
<figcaption>Data used: Number of fatality column, Year column. The trend of car fatalities over the years.</figcaption>
</figure>
<h1>Question 2 - Which state has the highest percentage of accidents?</h1>
<figure>
<img src="question2.jpg" alt="State with the highest percentage of accidents">
<figcaption>Data used: Crash ID column, State column. NSW has the highest percentage of Australia's state accidents.</figcaption>
</figure>
<h1>Question 3 - Which day of the week has the most number of accidents?</h1>
<figure>
<img src="question3.jpg" alt="Day of the week with the most accidents">
<figcaption>Data used: Crash ID column, Day of the week column. Saturday has the highest number of accidents.</figcaption>
</figure>
</body>
</html>
96 %
No issues found
Ln: 1
Ch: 1
SPC
CRLF
Ready
Select Repository