COS30045 Data Visualization: Lab Exercises 3.1 – 4.1 Demonstration 2

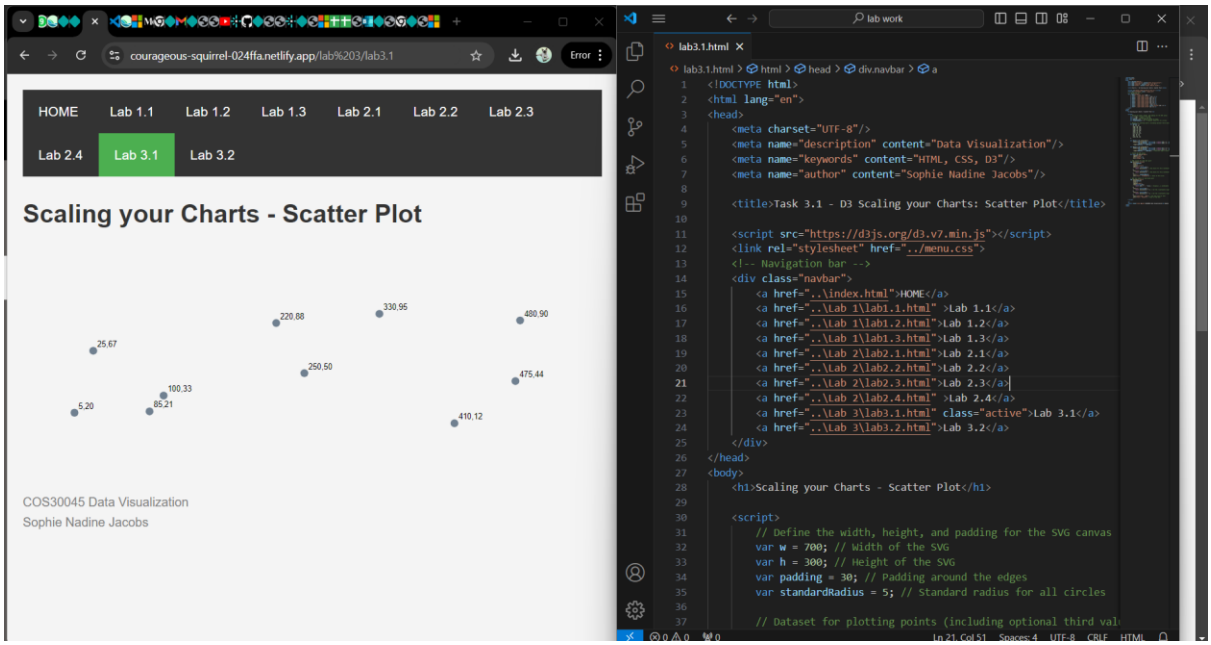
Name: Sophie Nadine Jacobs

Student ID: 104520476

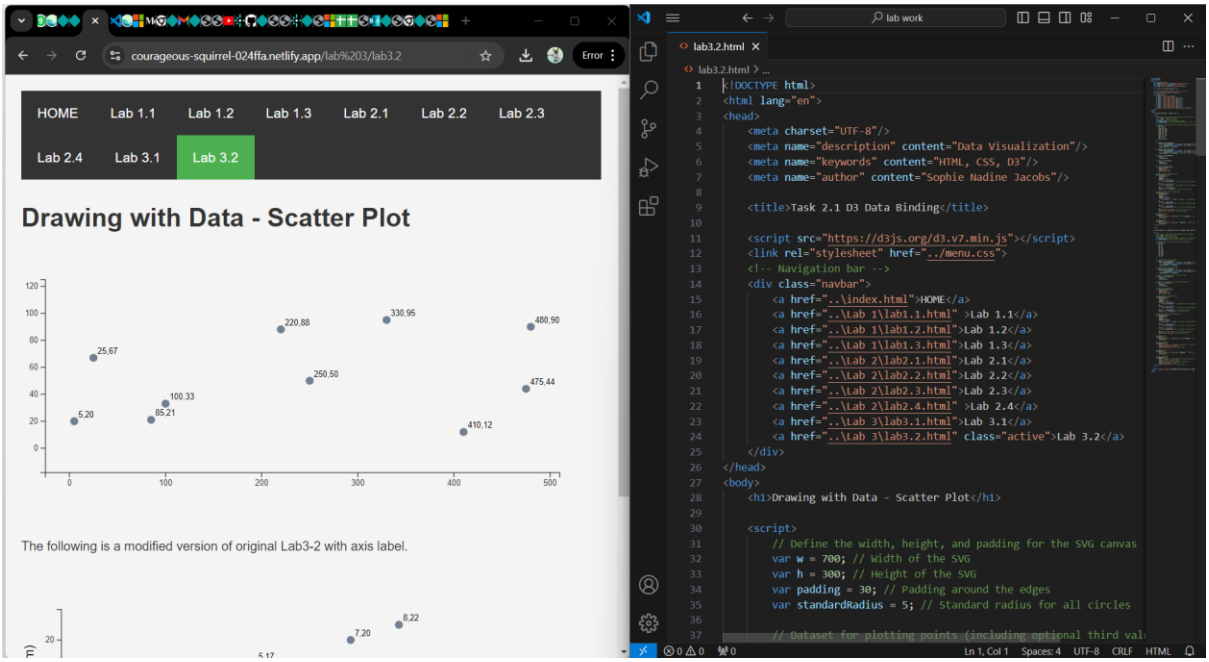
Hosting Link: https://courageous-squirrel-024ffa.netlify.app/

GitHub Link: https://github.com/sophiejcbs/COS30045-Labs

Lab 3.1

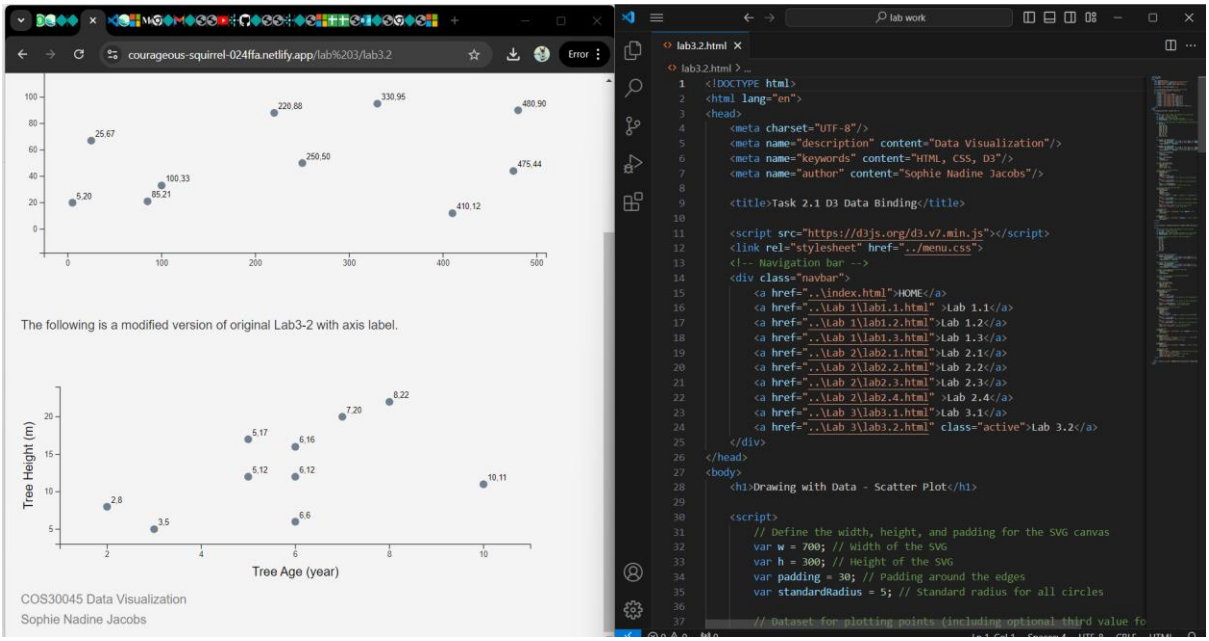


Lab 3.2


courageous-squirrel-024ffa.netlify.app/lab%203/lab3.2
HOME
Lab 1.1
Lab 1.2
Lab 1.3
Lab 2.1
Lab 2.2
Lab 2.3
Lab 2.4
Lab 3.1
Lab 3.2
Drawing with Data - Scatter Plot
The following is a modified version of original Lab3-2 with axis label.
lab work
lab3.2.html
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8"/>
<meta name="description" content="Data Visualization"/>
<meta name="keywords" content="HTML, CSS, D3"/>
<meta name="author" content="Sophie Nadine Jacobs"/>
<title>Task 2.1 D3 Data Binding</title>
<script src="https://d3js.org/d3.v7.min.js"></script>
<link rel="stylesheet" href="../menu.css">
<!-- Navigation bar -->

HOME
Lab 1.1
Lab 1.2
Lab 1.3
Lab 2.1
Lab 2.2
Lab 2.3
Lab 2.4
Lab 3.1
Lab 3.2

</head>
<body>
<h1>Drawing with Data - Scatter Plot</h1>
<script>
// Define the width, height, and padding for the SVG canvas
var w = 700; // Width of the SVG
var h = 300; // Height of the SVG
var padding = 30; // Padding around the edges
var standardRadius = 5; // Standard radius for all circles
// Dataset for plotting points (including optional third val


courageous-squirrel-024ffa.netlify.app/lab%203/lab3.2
The following is a modified version of original Lab3-2 with axis label.
Tree Height (m)
Tree Age (year)
COS30045 Data Visualization
Sophie Nadine Jacobs
lab work
lab3.2.html

Lab 4.1

School of Science, Computing and Engineering Technologies

COS30045

LAB 4.1 Design Studio

Overview

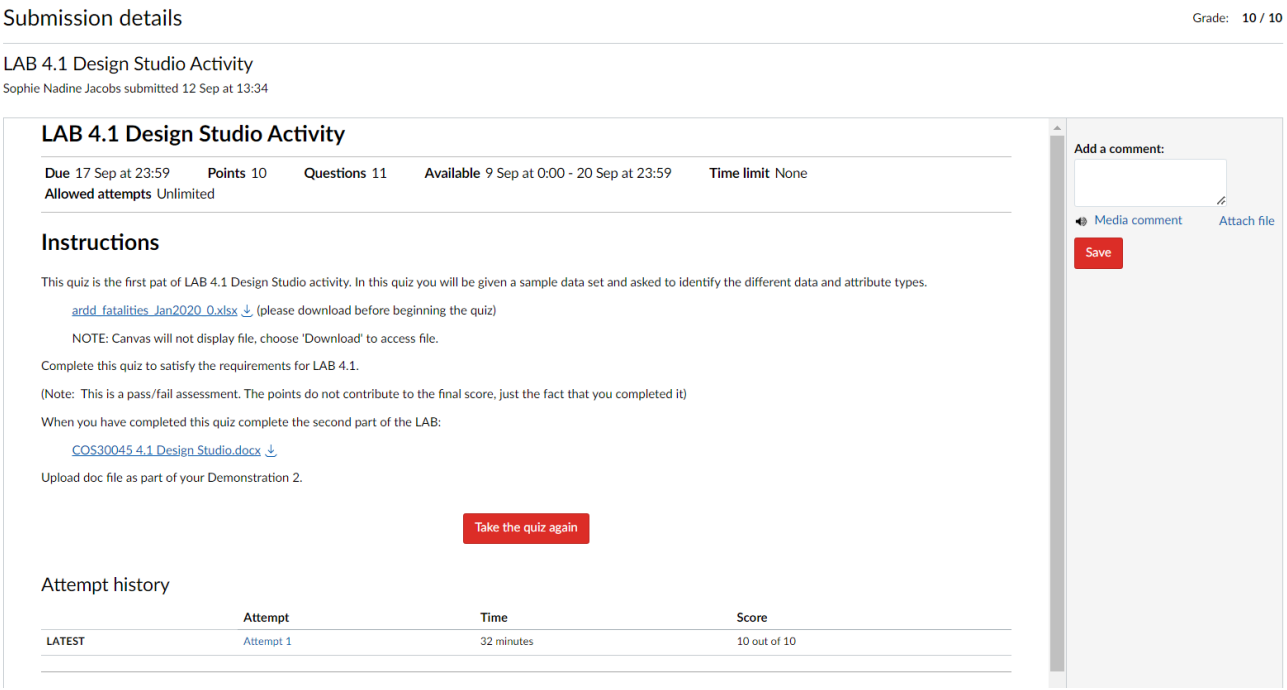
In this lab you will be given a sample data set and asked to identify the different data and attribute types. You will also think about some questions about this data set that might be answered by a visualisation.

ardd_fatalities_Jan2020_0.xlsx (download from Canvas)

Download and review this data set before attempting this exercise.

1 Interpreting the data set

Complete the LAB 4.1 Quiz.



2 Visualisation Design

Think of three questions you would like to answer with that require a data visualistion.

For each data question you will need to consider the following:

Which data attributes (columns) do you need to answer this question?

Do you need to transform any of the data?

Does the data type change when you transform the data? If so how.

Make a sketch of how you think your visualisation might look and add to this document.

Chart #1: Which Crash Type occurs the most frequently on the Weekday vs Weekend?

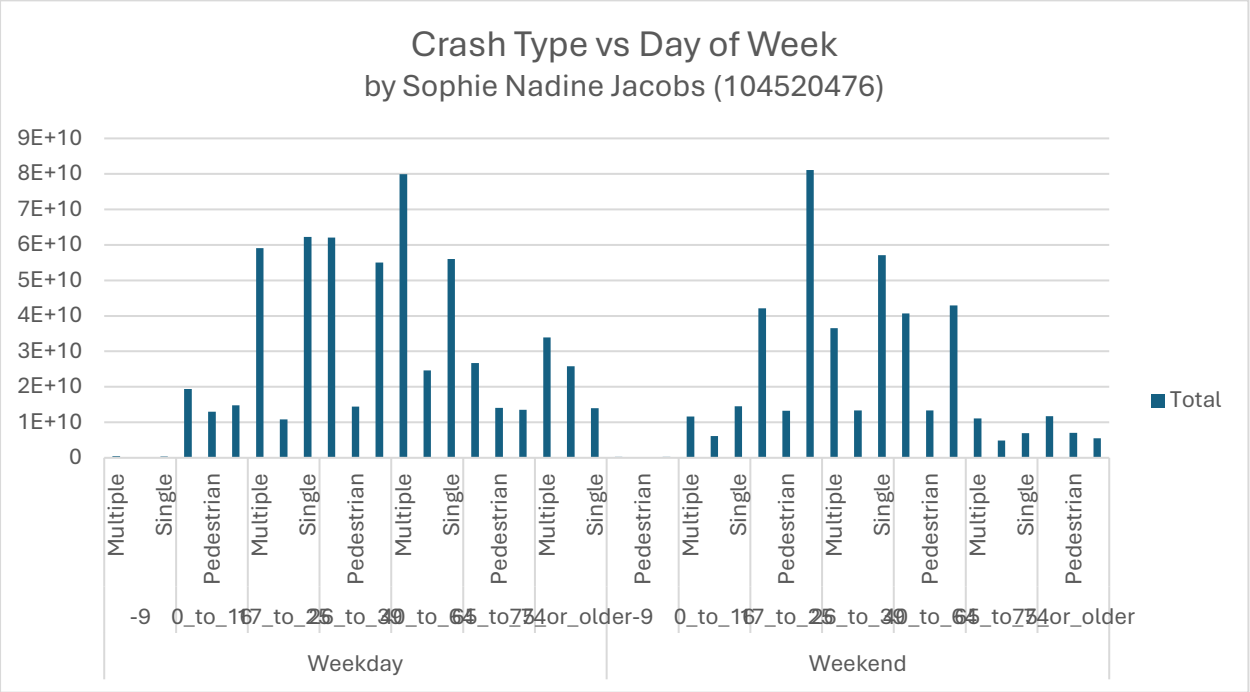


Chart #2: What is the Frequency of Crash Types during the Christmas Period?

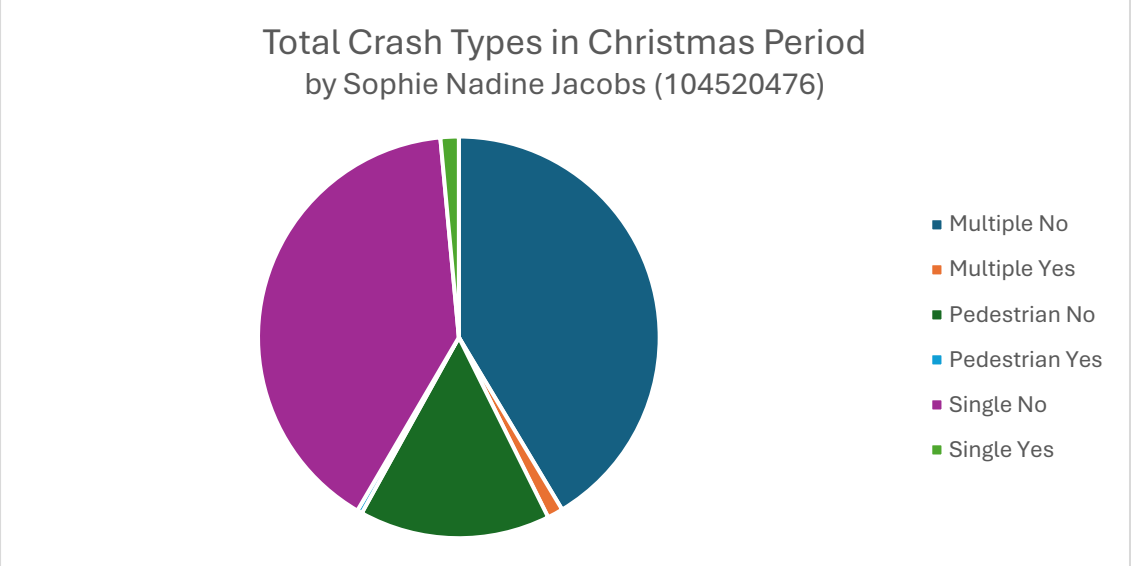


Chart #3: How many crashes occur at different times of day throughout the week?