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?

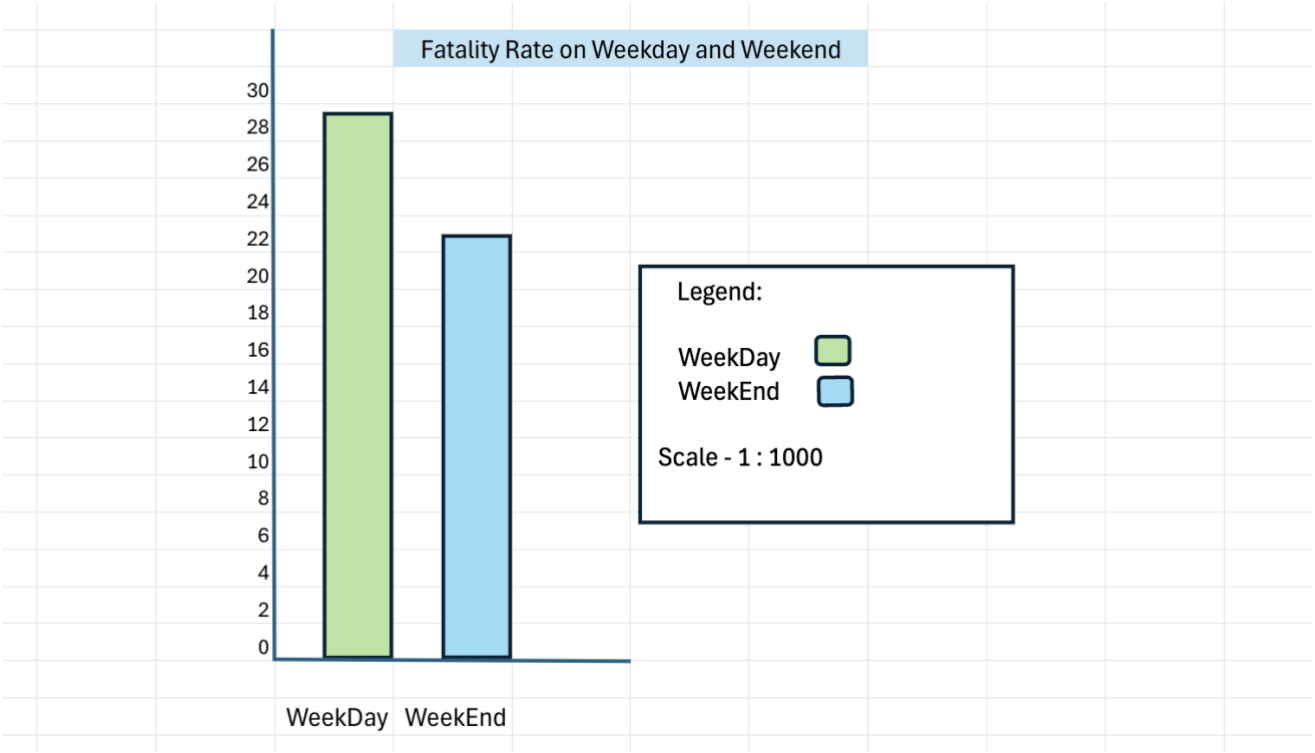
Do you need to transform any of the data?

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.

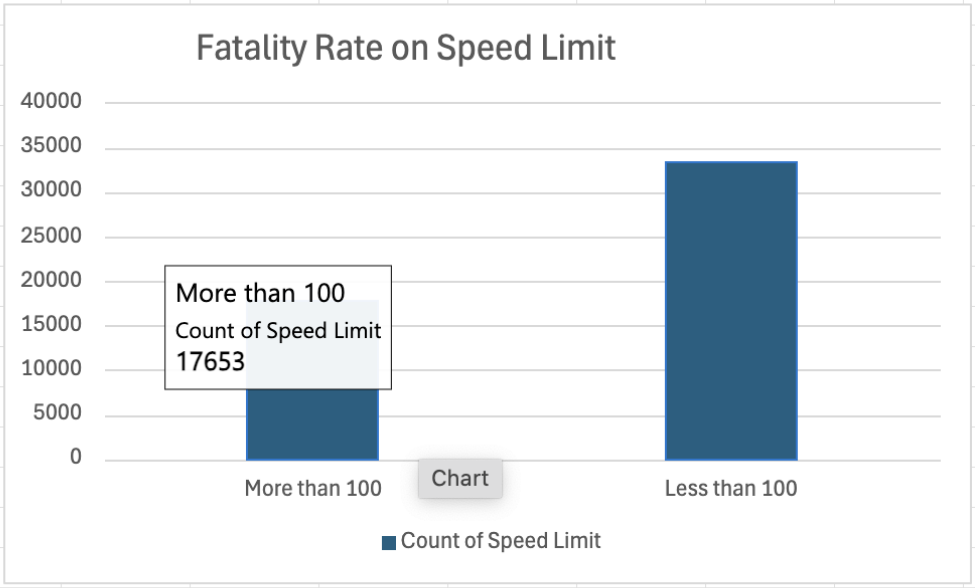
What is the difference between the fatality rate on weekdays and weekends

Data attributes needed – Day of Week
No need to transform data



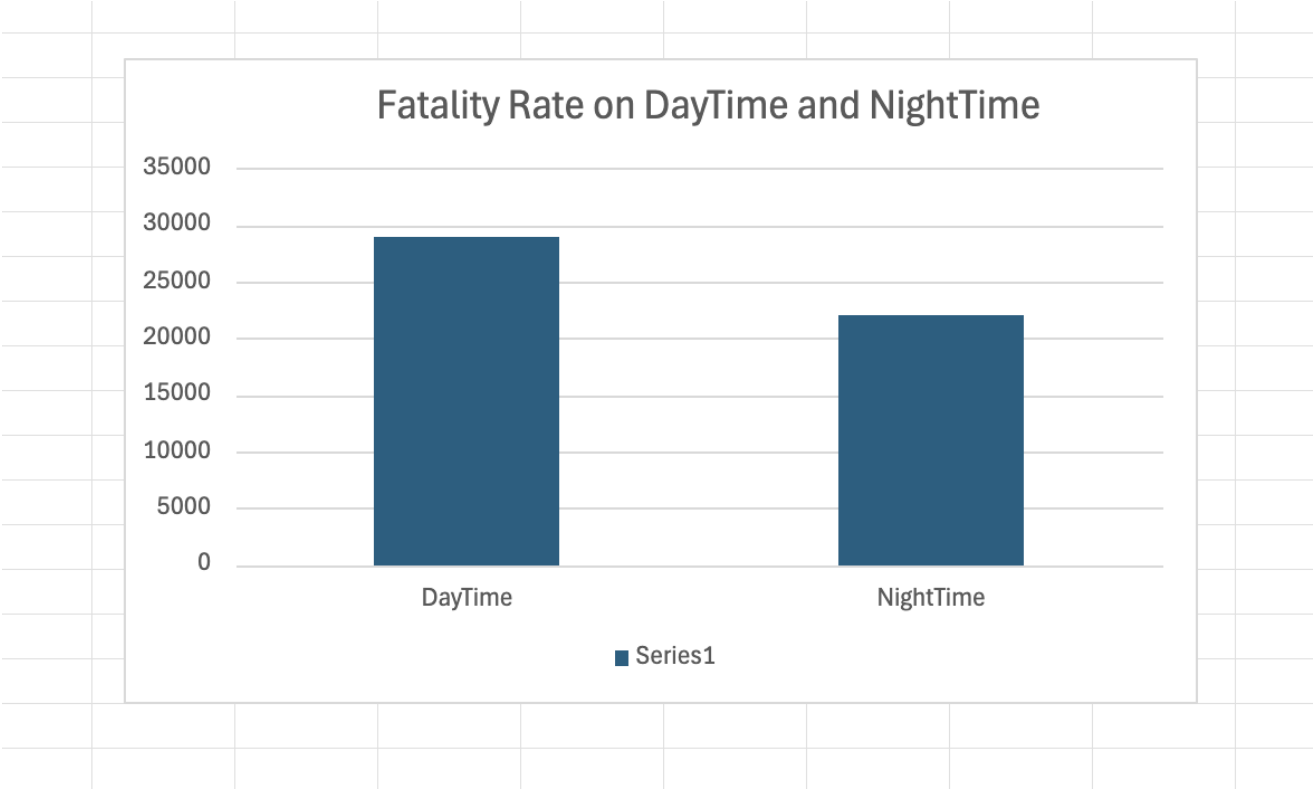
What is the comparison in speed limit of more than 100 and less than 100?

Data attributes needed – speed limit
Yes, needed to transform data from quantitative to ratio(interval) data.
In the excel sheet, it is showing speed limit according to the crash ID. But here, I transformed it into two categories which are cases happened in speed limit less than 100 and more than 100.



Comparison of fatality rate on daytime and nighttime.

Data attributes needed – Time of the day.
No need to transform data



Include this file as evidence for your Demonstration 2

Screenshots of webpages for Lab Task 3.1 to 3.2-2

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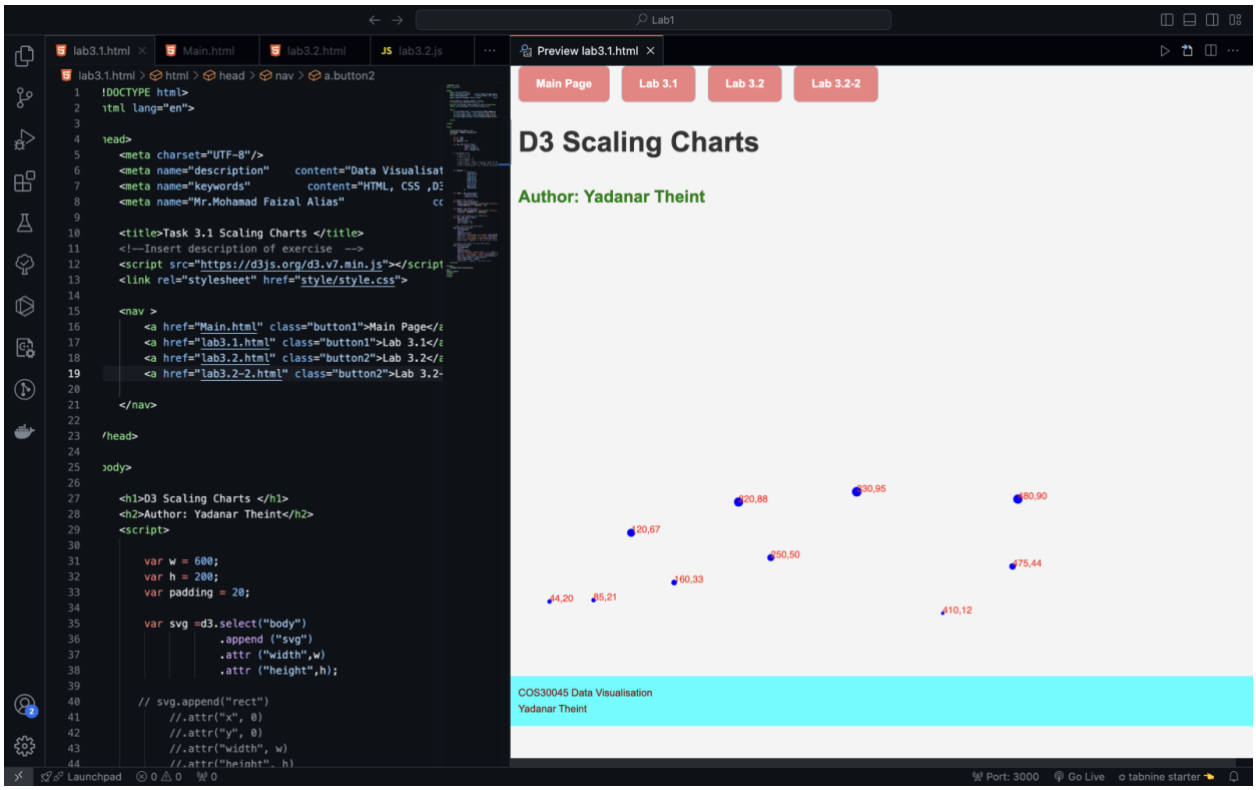
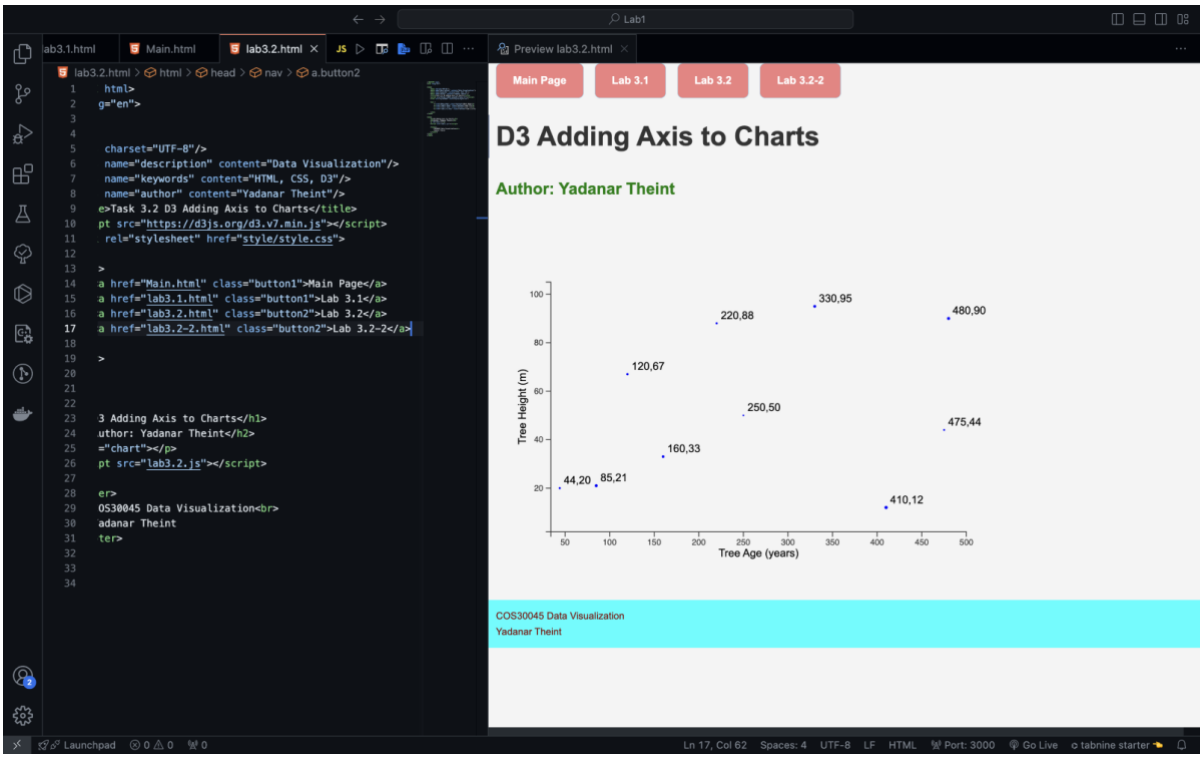
GitHub Link: https://github.com/Treasure-Mei-box/COS30045/tree/main/Lab3

Hosting Link: http://yadanartheint.infinityfreeapp.com/Labwork/Lab1/Main.html

Lab 3.1

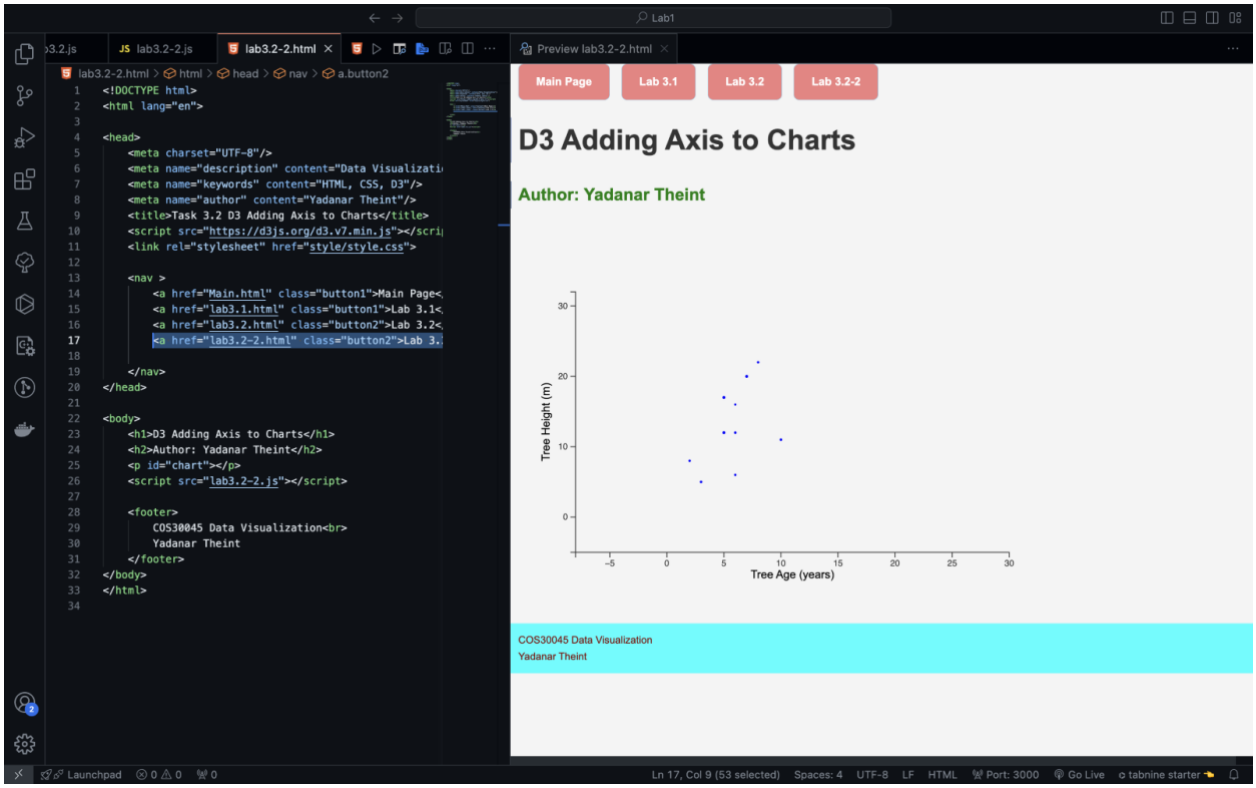


Lab 3.2



Lab 3.2-2

Demo Q – Adding X and Y axis labels


lab3.2-2.html
Preview lab3.2-2.html
Main Page
Lab 3.1
Lab 3.2
Lab 3.2-2
D3 Adding Axis to Charts
Author: Yadanar Theint
Tree Height (m)
Tree Age (years)
COS30045 Data Visualization
Yadanar Theint