Project Document Title

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Project Summary

The purpose of this project is to introduce the required tools to properly develop and run the upcoming projects in the CSE250 course. Altair, a visualization package, will be used to generate the chart presented in this project.

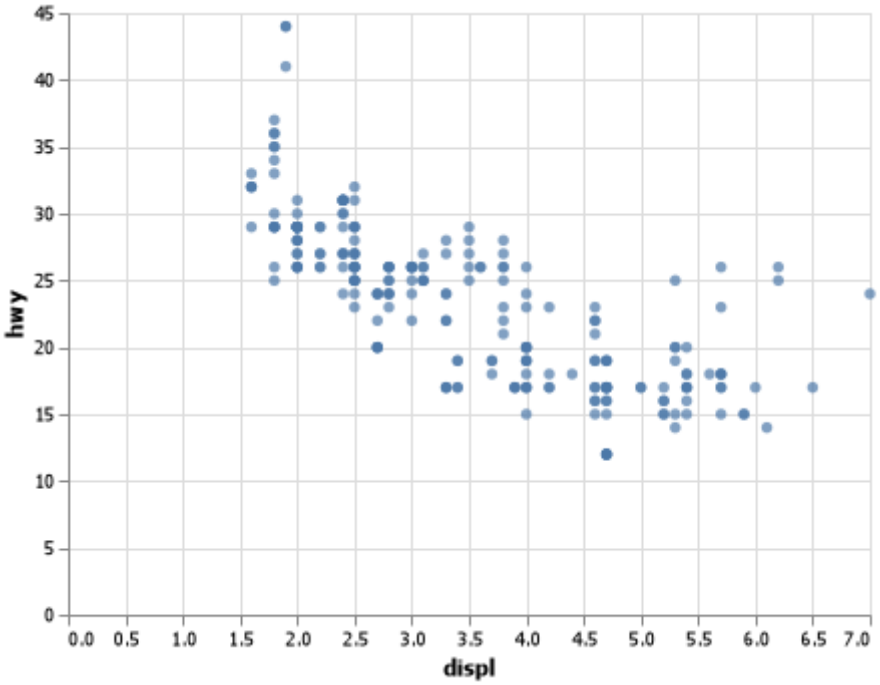
Technical Details

1. Finish the readings and come to class prepared with any questions to get your environment working smoothly.

I completed the readings and installed the required packages. I run on a problem saving the Altair chart but this was solved in class installing Node.js.

2. Write a python script to create the example Altair chart from section 3.2.2 of the textbook.

This is the chart created using Altair and data from the **mpg** dataset:



3. Include a markdown table created from a particular code.

manufacturer	model	year	hwy
audi	a4	1999	29
audi	a4	1999	29
audi	a4	2008	31
audi	a4	2008	30
audi	a4	1999	26

Appendix A

```
import pandas as pd
import altair as alt

# Question 2: Creating a chart based on the mpg dataset
url = "https://github.com/byuidatascience/data4python4ds/raw/master/data-raw/mpg/mpg.csv"

# Use the read_scv module in pandas to pull a csv file from a url
mpg = pd.read_csv(url)

# Create a chart with the mpg data set, setting 'displ' as the x-axis and 'hwy' as the y-axis ir
chart = (alt.Chart(mpg)
  .encode(
    x='displ',
    y='hwy')
  .mark_circle()
)

chart

# Save the chart as a .png file
chart.save("my_chart1.png")

# Question 3: Creating a markdown table given the following code
print(mpg
  .head(5)
  .filter(["manufacturer", "model","year", "hwy"])
  .to_markdown(index=False))
```