

Client Report - Introduction

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Elevator pitch

The purpose of this assignment is to teach you how to set up our enviroments and visualise data using Altair, the document is proof that the setup was successful and the readings were completed

GRAND QUESTION 1

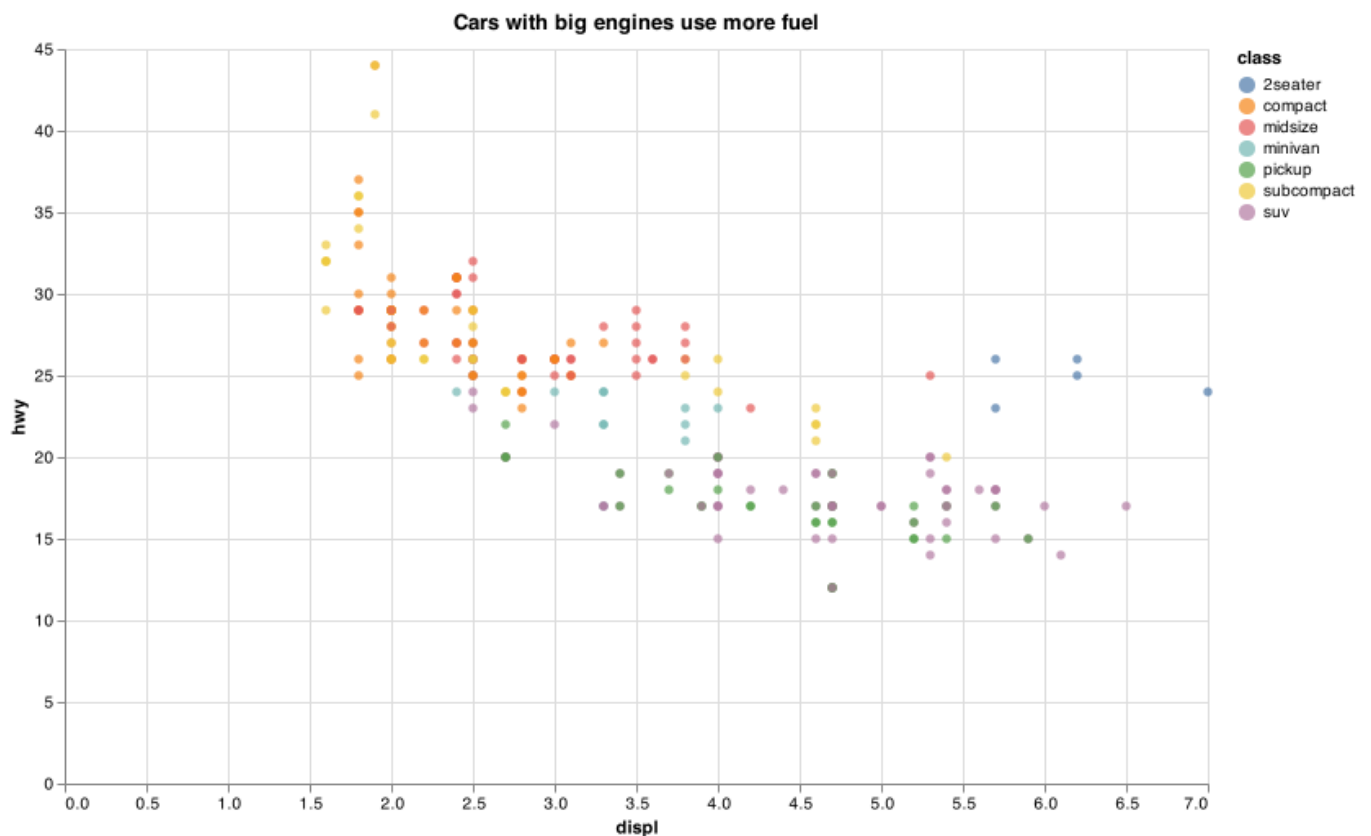
Finish the readings and come to class prepared with any questions to get your environment working smoothly.

This document is proof that the enviromment is working smoothly and that all the readings were completed

GRAND QUESTION 2

Create a python script and use VS Code to create the example Altair chart in the assigned readings (note that you have to type chart to see the Altair chart after you run the code). Save your Altair chart for submission

TECHNICAL DETAILS



Include the Markdown table created from the following code in your report (assuming you have mpg from question 2)

```
print(mpg
      .head(5)
      .filter(["manufacturer", "model", "year", "hwy"])
      .to_markdown(index=False))
```

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 (PYTHON SCRIPT)

```
#!/usr/bin/env python
import pandas as pd
import altair as alt

# data import
url = "https://github.com/byuidatascience/data4python4ds/raw/master/data-raw/mpg/mpg.csv"

# Reads csv file
mpg = pd.read_csv(url)

# Stores JSON data
alt.data_transformers.enable('json')

#Creates chart
chart = (alt.Chart(mpg)
        .encode(
            x = "displ",
            y = "hwy",
            color = "class"
        )
        .mark_circle())
chart.save('chart.png')

# Prints the table
print(mpg
      .head(5)
      .filter(["manufacturer", "model", "year", "hwy"]))
```

```
.to_markdown(index=False))
```