Project 0

Samantha Staheli

Project Summary

In Project 0, I learned how to create and save an altair chart, create a markdown file, and use Jupyter Notebook.

Technical Details

Grand Question 1

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

I finished the reading before class.

Grand Question 2

In VS Code, write a python script to create the example Altair chart from section 3.2.2 of the textbook (part of the assigned readings). Note that you have to type chart to see the Altair chart after you create it. Save your Altair chart as a .png image. This image will be inserted into your final pdf report.
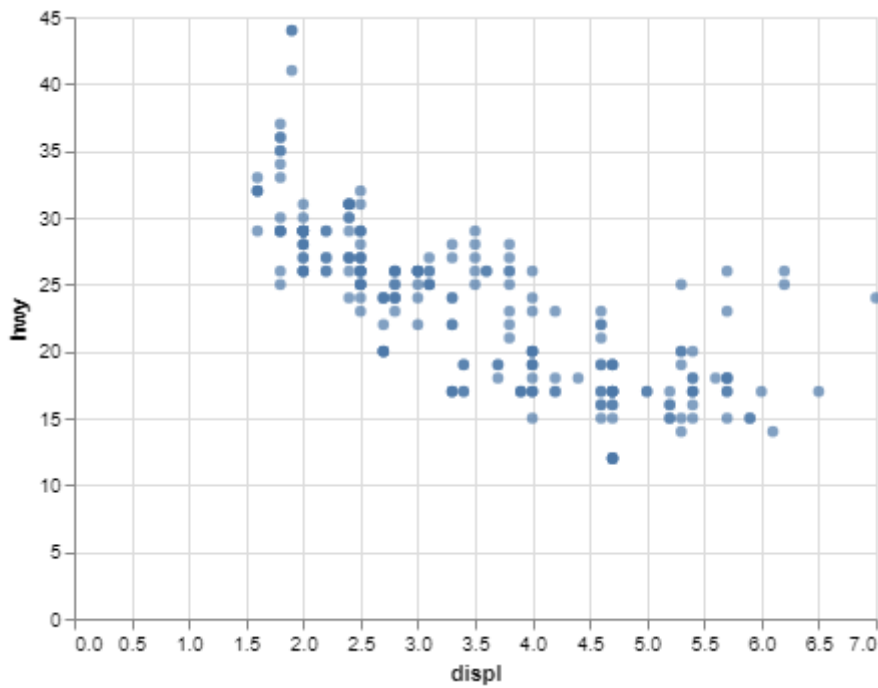
Grand Question 3

Your final report should also include the markdown table created from the following code. (Assuming you have mpg from Question 2.)

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
# # Project 0

# ## Question 2

# get libraries
import pandas as pd
import altair as alt

# get data
# store data in global variables so can be used throughout code
url = "https://github.com/byuidatascience/data4python4ds/raw/master/data-raw/mpg/mpg.csv"
mpg = pd.read_csv(url)

# create altair chart using the data variables
chart = (alt.Chart(mpg)
  .encode(
    x='displ',
    y='hwy')
  .mark_circle()
)
chart

# ## Question 3

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