

Client Report - [Project 0]

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Elevator pitch

This is for reporting the completion of installing some packages of npm and pip3 which are necessary for comming projects. Also, I am going to explain exactly which packages I have installed.

GRAND QUESTION 1

None: due to This is Project 0.

TECHNICAL DETAILS

Packages pip3

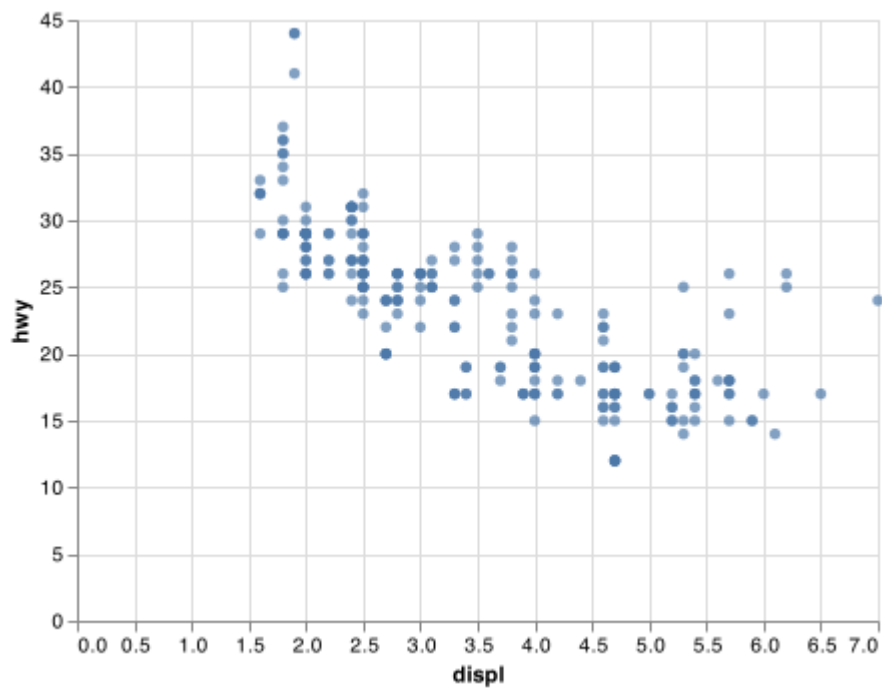
- Python 3.10.4 64-bit
- numpy 1.20.3
- pandas 1.4.2
- xlrd 2.0.1
- matplotlib 3.5.1
- seaborn 0.11.2
- plotnine 0.8.0
- altair 4.2.0
- vega_datasets 0.9.0
- altair_saver 0.5.0
- statsmodels 0.12.0
- scikit-learn 0.24.2
- jupyter 1.0.0

npm

- node 16.14.2
- canvas 2.9.1
- vega-cli 5.22.1
- vega-lite5.2.0

After I was finished installing packages above, I fetched data from this url
(<https://github.com/byuidatascience/data4python4ds/raw/master/data-raw/mpg/mpg.csv>). With pandas and

altair, I plotted the data to a chart. The chart is below.



Here is the first five data from the dataset and the code to get the five data from the url above.

```
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