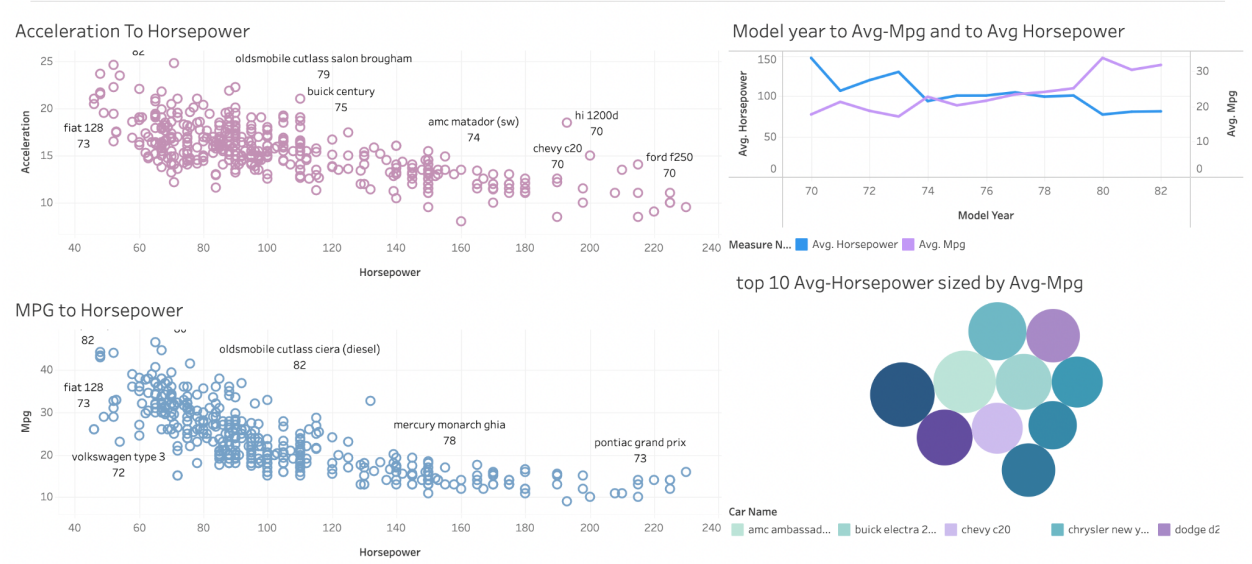
Tamar Setton Tenenbaum

ITDS Fianl

1. Instal packages and data.
    a. To acquire the exact path of the data on my device, I used the terminal.

2. I ran some brief code just to see the variables I am working with.

3. I downloaded the data into Tableau as well, and began running analysis.
    a. The link to the work is: https://public.tableau.com/views/Cars_17018767607030/Dashboard1?:language=en-US&:display_count=n&:origin=viz_share_link



The two lefthand Graphs Show negative correlation in Horsepower to Acceleration and Mpg. As the horsepower increases, acceleration and mpg decrease. In Mpg to Horsepower, there is a notable outlier, Datsun 280-zx model year 80. Both the Mpg at 32.7 and Horsepower at 132 are relatively high. Making this car an excellent option for someone who is looking for both qualities. Using the same logic we can see the car Hi 1200d model year 70 to be a good option in both horsepower and acceleration. On a separate plot, I scanned the relationship between acceleration and mpg, and found it is mostly stagnant.

On the right hand side, I graphed how over the years, on average, horsepower has gone down and Mpg has gone up. This can possibly be due to customer's interest to save money on gas, environmental awareness, and a less of a desire for horsepower overall.

The bottom left bubble display shows the cars with the top 10 average horsepower, sized to show the average mpg. The car with the highest mpg of the top 10 horsepower cars is Pontiac Grand prix. With an average horsepower of 230, and an average mpg of 16.

4. From here, refer to the R code and comments.