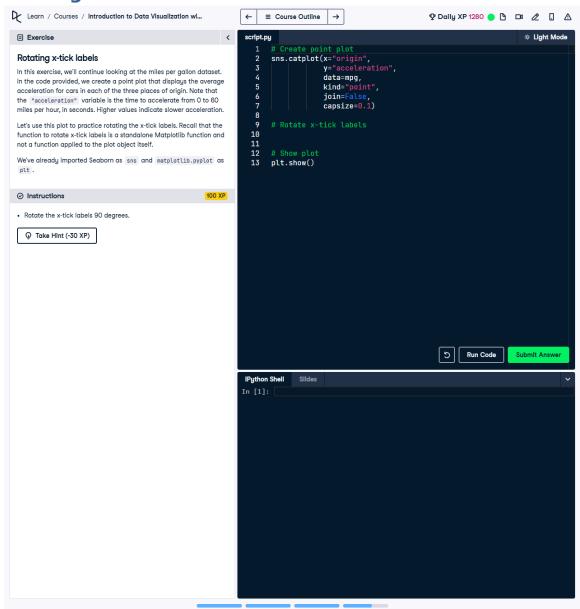# Rotating X-Tick Labels

Figure 1: Screenshot showing the task to rotate x-tick labels for a point plot.

Question

We continue looking at the miles per gallon dataset. This exercise involves creating a point plot to display the average acceleration for cars in each of the three places of origin. The acceleration variable measures the time it takes for a car to accelerate from 0 to 60 miles per hour, in seconds. The

task is to rotate the x-tick labels 90 degrees to improve readability.

Question Explanation

Point plots are useful for visualizing averages with confidence intervals. However, x-tick labels may overlap or be hard to read when categories are displayed horizontally. The Matplotlib function plt.xticks() can be used to rotate these labels, enhancing clarity and readability.

Code Solution

```
# Create point plot
sns.catplot(x="origin", y="acceleration",
        data=mpg, kind="point",
        join=False, capsize=0.1)

# Rotate x-tick labels
plt.xticks(rotation=90)

# Show plot
plt.show()
```

Answer Explanation

1. sns.catplot(...): Creates a point plot with 'origin' on the x-axis and 'acceleration' on the y-axis, displaying averages with confidence intervals. The 'join=False' argument removes lines connecting points, and 'capsize=0.1' adds small caps to the error bars.
2. plt.xticks(rotation=90): Rotates the x-tick labels 90 degrees for better readability.
3. plt.show(): Displays the resulting plot with the rotated x-tick labels.