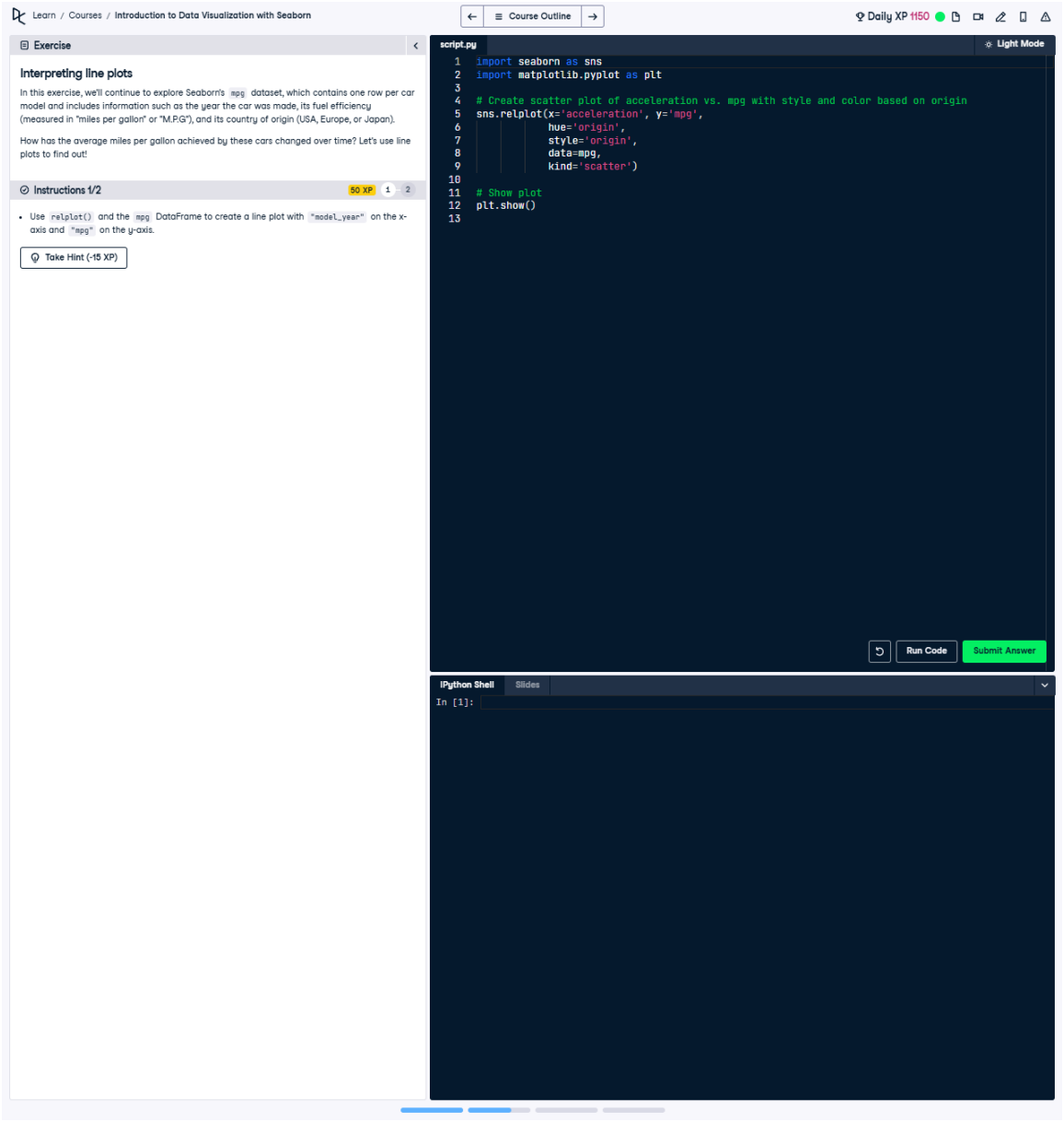

Interpreting Line Plots

Use relplot() and the mpg DataFrame to create a line plot with 'model_year' on the x-axis and 'mpg' on the y-axis. This will help analyze how the average miles per gallon (mpg) achieved by cars has changed over time.

Full Answer

The following code creates a line plot using relplot(). It plots the 'model_year' against 'mpg' to visualize trends in fuel efficiency over time. Below is the working code:

```
import seaborn as sns
import matplotlib.pyplot as plt

# Create line plot of model_year vs. mpg
sns.relplot(x='model_year', y='mpg',
            kind='line',
            data=mpg)

# Show plot
plt.show()
```

Code Explanation

1. Import seaborn and matplotlib.pyplot for creating visualizations.
2. Use sns.relplot() to create a line plot with:
   - 'x' set to 'model_year' for the year the car model was produced.
   - 'y' set to 'mpg' for the fuel efficiency in miles per gallon.
   - 'kind' set to 'line' to generate a line plot.
   - 'data' set to mpg, the DataFrame containing the data.
3. Use plt.show() to render and display the plot.