

Learn / Courses / Introduction to Data Visualiza...

← Course Outline →

Daily XP 400

Exercise

Customizing point plots

Let's continue to look at data from students in secondary school, this time using a point plot to answer the question: does the quality of the student's family relationship influence the number of absences the student has in school? Here, we'll use the "famrel" variable, which describes the quality of a student's family relationship from 1 (very bad) to 5 (very good).

As a reminder, to create a point plot, use the `catplot()` function and specify the name of the categorical variable to put on the x-axis (`x=_____`), the name of the quantitative variable to summarize on the y-axis (`y=_____`), the pandas DataFrame to use (`data=_____`), and the type of categorical plot (`kind="point"`).

We've already imported Seaborn as `sns` and `matplotlib.pyplot` as `plt`.

Instructions 1/3

35 XP 1 2 3

- Use `sns.catplot()` and the `student_data` DataFrame to create a point plot with "famrel" on the x-axis and number of absences ("absences") on the y-axis.

Take Hint (-10 XP)

script.py

Light Mode

```
1 # Create a point plot of family relationship vs.
2   absences
3
4
5
6 # Show plot
7 plt.show()
```

↶ Run Code Submit Answer

IPython Shell Slides

In [1]:

Customizing Point Plots

Use `sns.catplot()` and the `student_data` DataFrame to create a point plot with 'famrel' on the x-axis and number of absences ('absences') on the y-axis.

Full Answer

To create a point plot of family relationship vs. absences, use `sns.catplot()` and specify 'famrel' for the x-axis and 'absences' for the y-axis. Below is the working code:

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

# Create a point plot of family relationship vs. absences
sns.catplot(x='famrel', y='absences',
            data=student_data,
            kind='point')

# Show plot
plt.show()
```

Explanation

1. Import seaborn and matplotlib.pyplot for creating visualizations.
2. Use sns.catplot() to create a point plot with:
 - 'x' set to 'famrel' to categorize data based on family relationship quality.
 - 'y' set to 'absences' to display the number of absences.
 - 'kind' set to 'point' to create a point plot.
 - 'data' set to student_data, the DataFrame containing the data.
3. Use plt.show() to render and display the plot.