

Visualizing Multiple Variable Relationships - Pairplot

Learn / Courses / Exploratory Data Analysis in Python

← Course Outline →

Daily XP 265

Exercise

Visualizing multiple variable relationships

Seaborn's `.pairplot()` is excellent for understanding the relationships between several or all variables in a dataset by aggregating pairwise scatter plots in one visual.

Your task is to use a `pairplot` to compare the relationship between `marriage_duration` and `income_woman`. `pandas` has been loaded as `pd`, `matplotlib.pyplot` has been loaded as `plt`, and Seaborn has been loaded as `sns`.

Instructions 100 XP

- Create a pairplot to visualize the relationships between `income_woman` and `marriage_duration` in the `divorce` DataFrame.

Take Hint (-30 XP)

script.py

Light Mode

```
1 # Create a pairplot for income_woman and marriage_duration
2 sns.pairplot(data=_, vars=[_, _])
3 plt.show()
```

↺ Run Code Submit Answer

IPython Shell Slides

In [1]:

Question

Create a pairplot to visualize the relationships between `income_woman` and `marriage_duration` in the `divorce` DataFrame.

Explanation of the Question

This task involves using a pairplot to understand the relationship between `income_woman` and `marriage_duration`. Pairplots are useful for visualizing pairwise relationships in a dataset, especially when comparing multiple variables.

Answer

```
# Create a pairplot for income_woman and marriage_duration
import seaborn as sns
import matplotlib.pyplot as plt

sns.pairplot(data=divorce, vars=["income_woman", "marriage_duration"])
plt.show()
```

Explanation of the Answer

The code uses Seaborn's pairplot function to visualize the relationship between income_woman and marriage_duration. By passing these variables to the vars parameter, the pairplot generates scatterplots and histograms to explore trends.