Relational Plots and Multiple Variables: Takeaways

Syntax

- Importing seaborn and activating the default style settings:

```
import seaborn as sns
sns.set_theme()
```

- Plotting a relational plot with five variables:

```
sns.relplot(data=data, x='Col_1', y='Col2',
            hue='Col_3', palette=palette,
            size='Col_4', sizes=sizes,
            style='Col_5', markers=markers)
plt.show()
```

- Separating a relational plot based on a sixth variable:

```
sns.relplot(data=data, x='Col_1', y='Col2',
            hue='Col_3', palette=palette,
            size='Col_4', sizes=sizes,
            style='Col_5', markers=markers,
            col='Col_6')
plt.show()
```

Concepts

- Seaborn is a Python library based on Matplotlib.
- We can visually represent a variable in several ways:
    - X- and y-coordinates
    - Color
    - Size
    - Shape
    - Spatial separation
- A relational plot is a graph that visually represents the relationships between three or more variables.
- Relational plots can also be formed using line plots.

Resources

- Seaborn relational plots
- Seaborn distribution plots
- Seaborn categorical plots
- Seaborn grid charts