

# Relational Plots and Multiple Variables: Takeaways

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## 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](#)