DATA VISUALIZATION

Types Plot

5

DV

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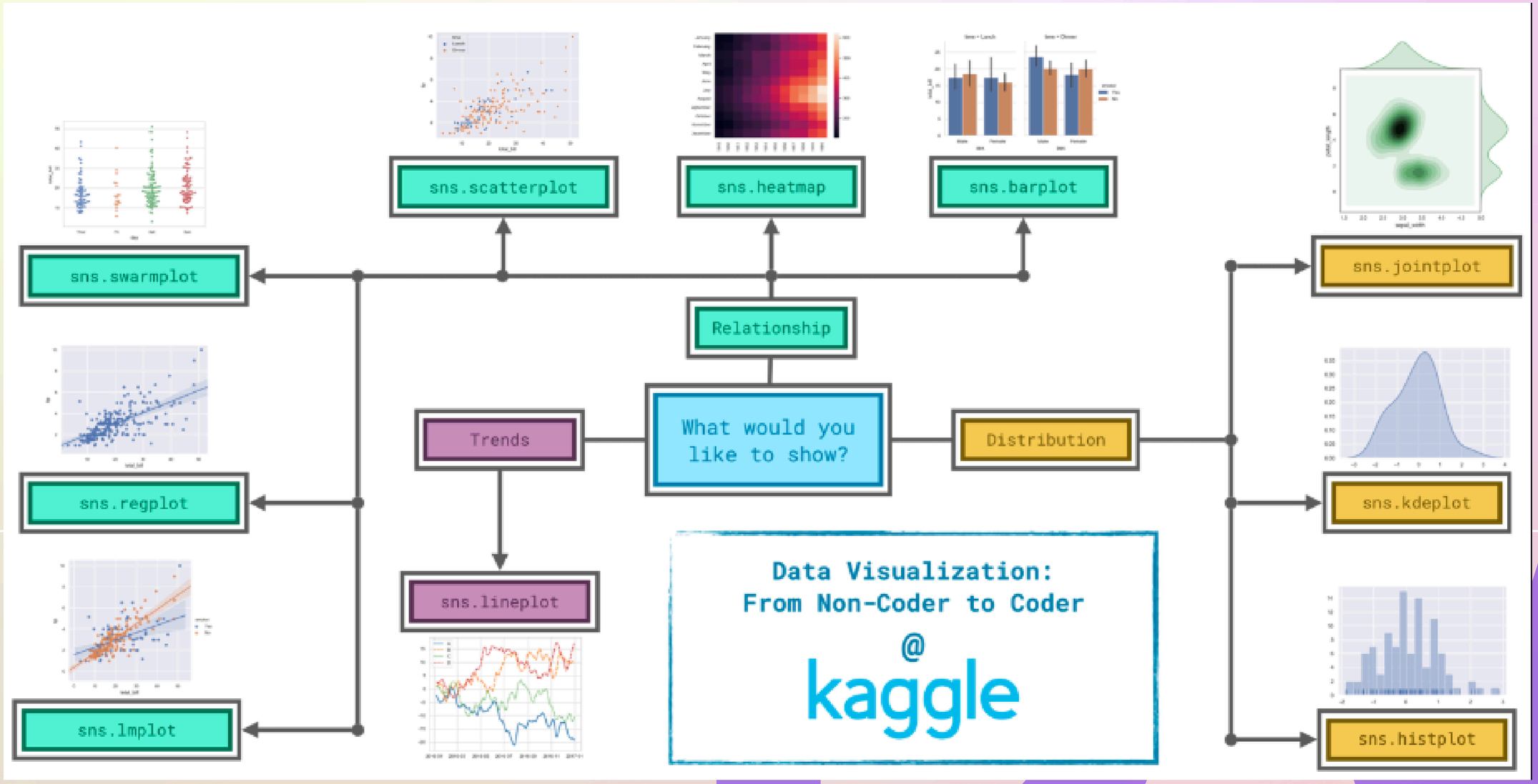
Intro



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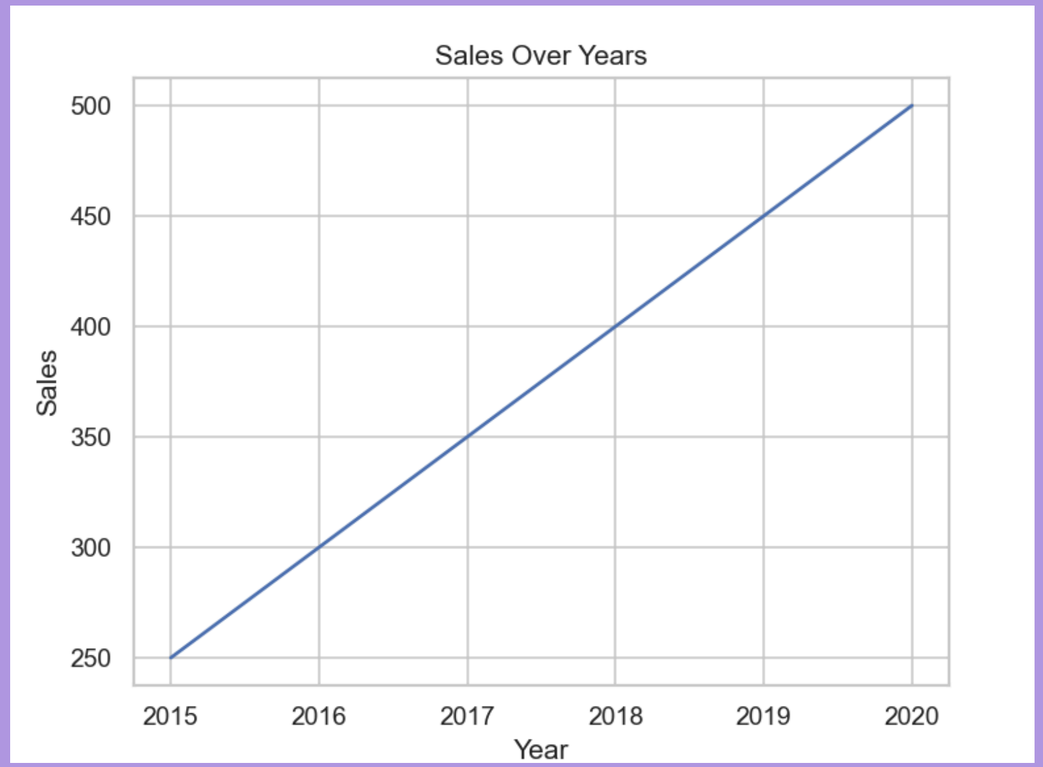
sns.lineplot - Line charts are best to show trends over a period of time, and multiple lines can be used to show trends in more than one group.

```python
import pandas as pd
import seaborn as sns
import matplotlib.pyplot as plt

# Sample data
data = {
    'Year': [2015, 2016, 2017, 2018, 2019, 2020],
    'Sales': [250, 300, 350, 400, 450, 500]
}

# Create a DataFrame
df = pd.DataFrame(data)

# Set the style for the plot
sns.set(style="whitegrid")

# Create a line plot
sns.lineplot(x='Year', y='Sales', data=df)

# Add titles and labels
plt.title('Sales Over Years')
plt.xlabel('Year')
plt.ylabel('Sales')

# Show the plot
plt.show()
```

Trends

A trend is defined as a pattern of change



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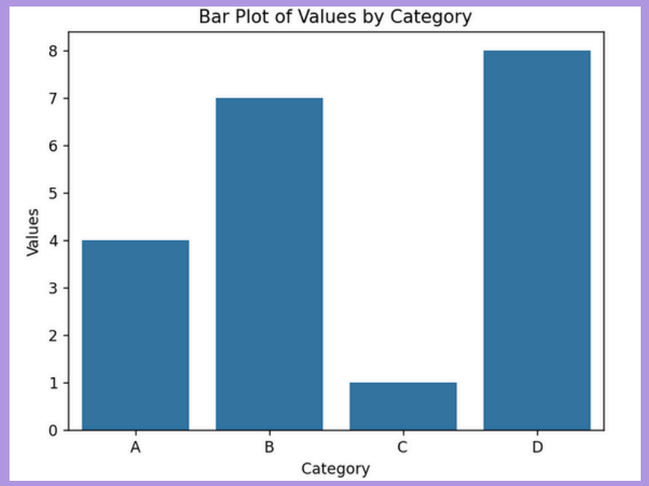
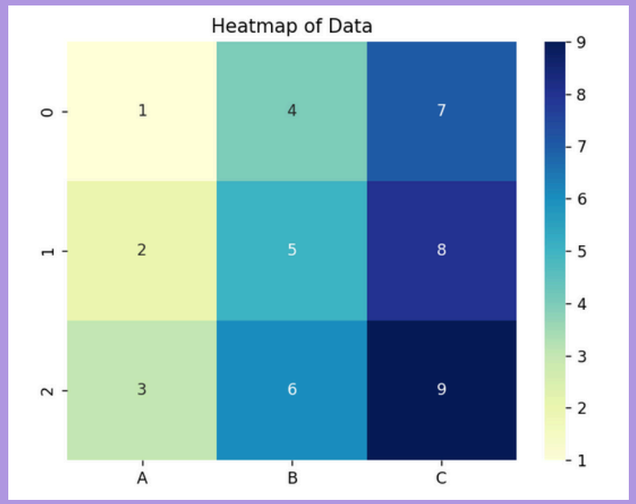
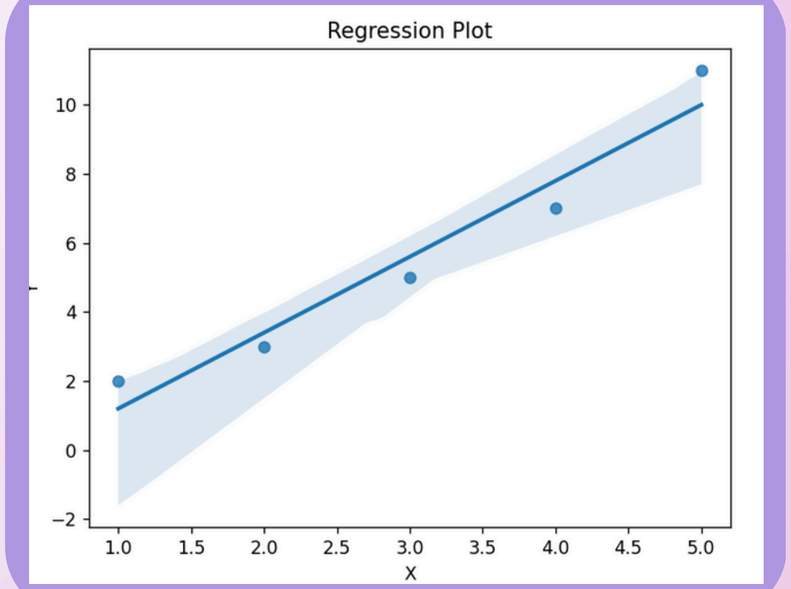
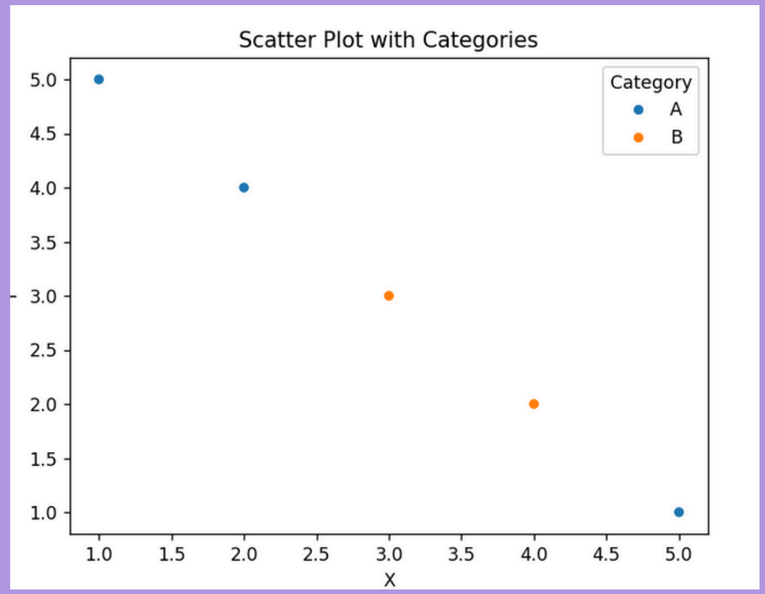
Relationship

There are many different chart types that you can use to understand relationships between variables in your data.









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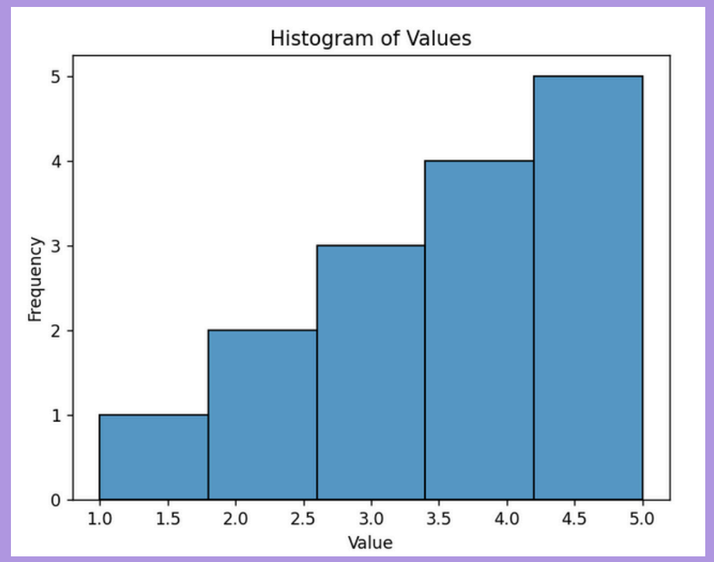
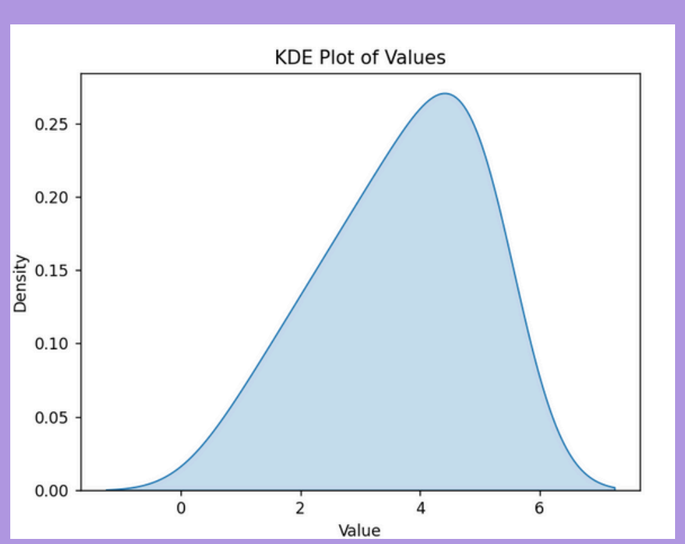
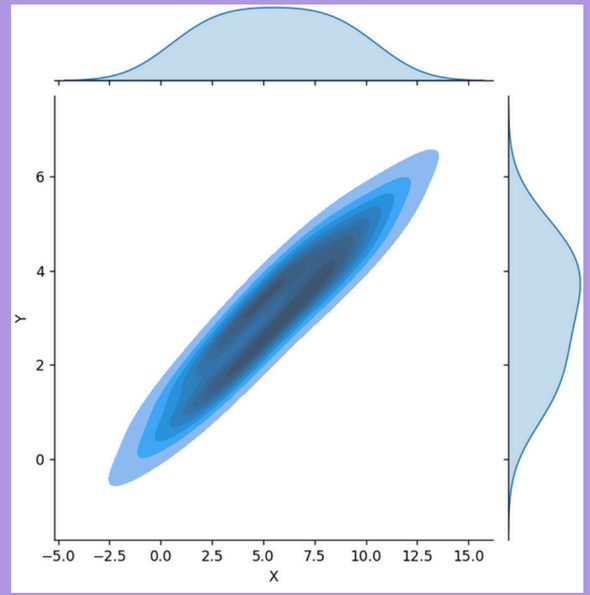
Distribution

We visualize distributions to show the possible values that we can expect to see in a variable, along with how likely they are.







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