

seaborn

September 1, 2023

1 Sample data

```
[1]: import seaborn as sns
import matplotlib.pyplot as plt

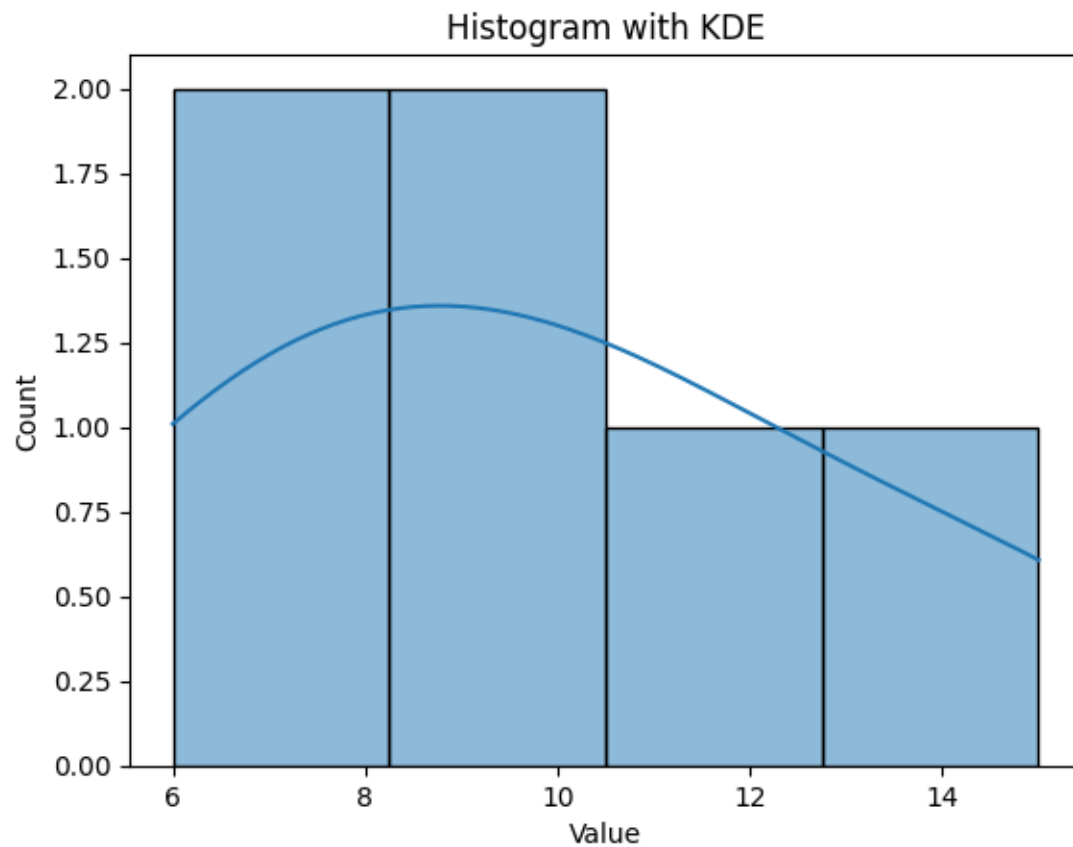
import pandas as pd

data = pd.DataFrame({
    'Category': ['A', 'B', 'C', 'A', 'B', 'C'],
    'Value': [10, 15, 7, 12, 9, 6]
})
```

2 Creating Stunning Distributions

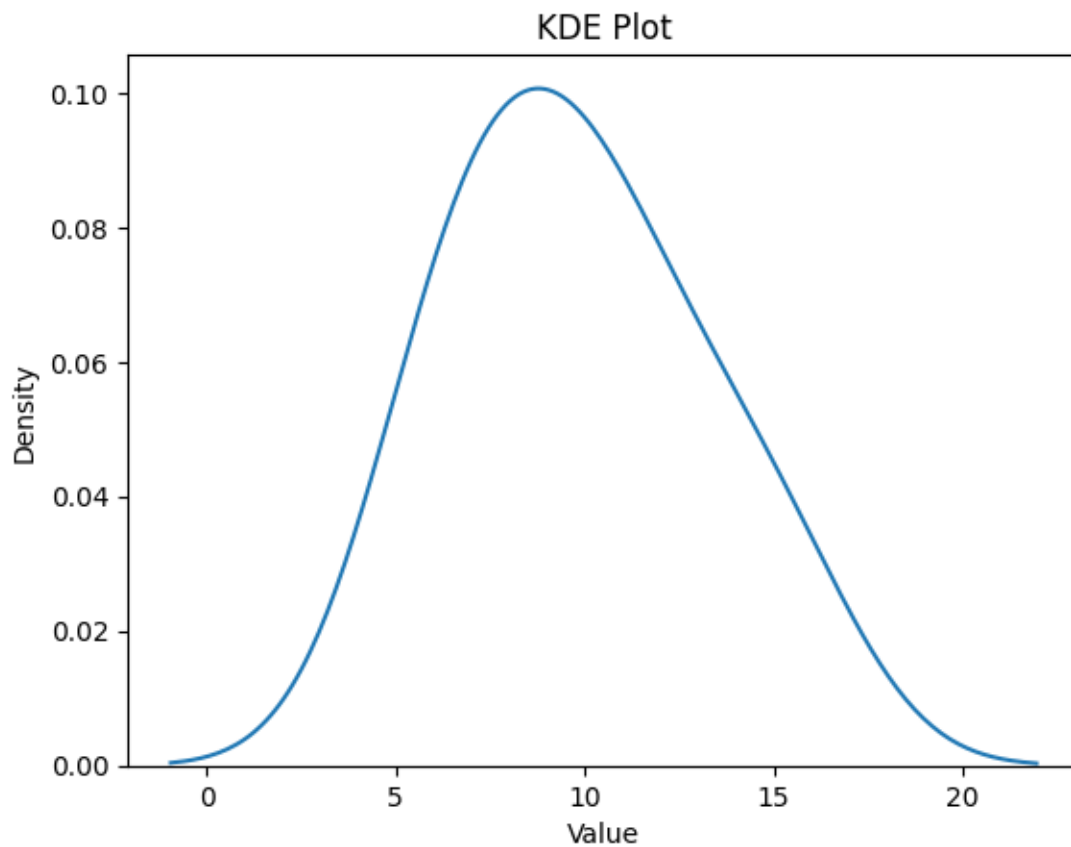
Histogram with KDE

```
[2]: sns.histplot(data=data, x='Value', kde=True)
plt.title('Histogram with KDE')
plt.show()
```



KDE Plot

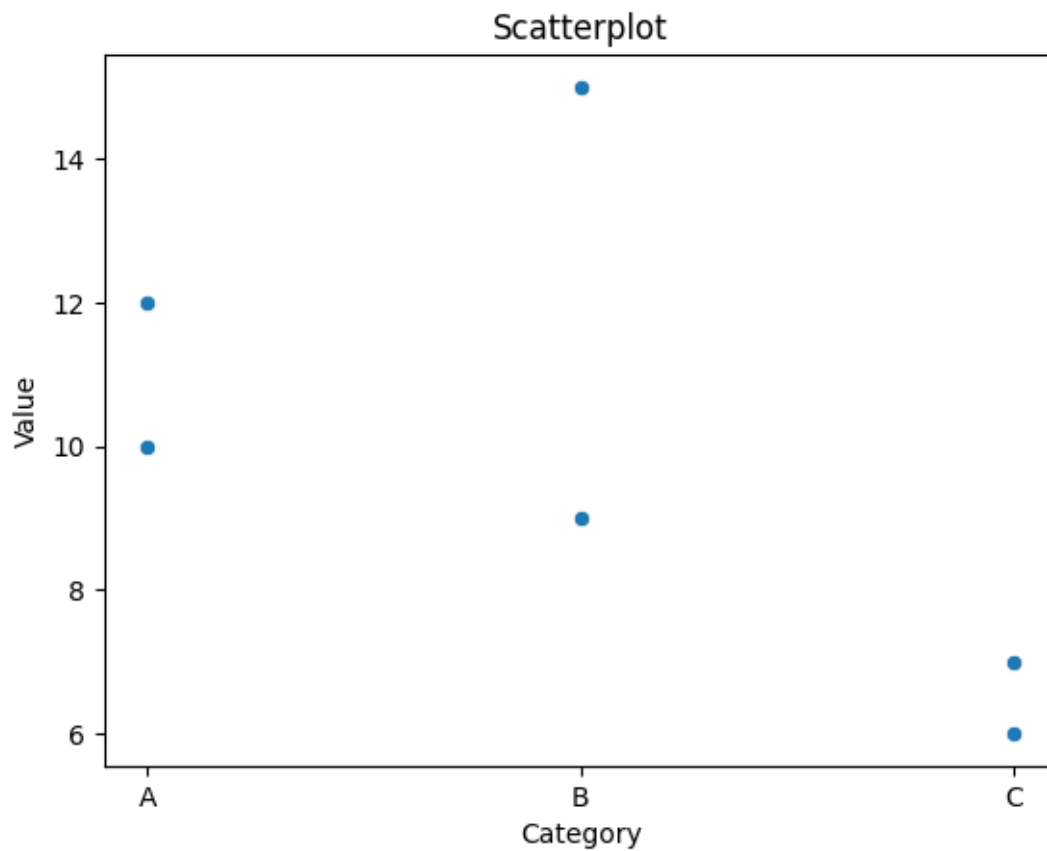
```
[4]: sns.kdeplot(data=data, x='Value')  
plt.title('KDE Plot')  
plt.show()
```



3 Visualizing Relationships

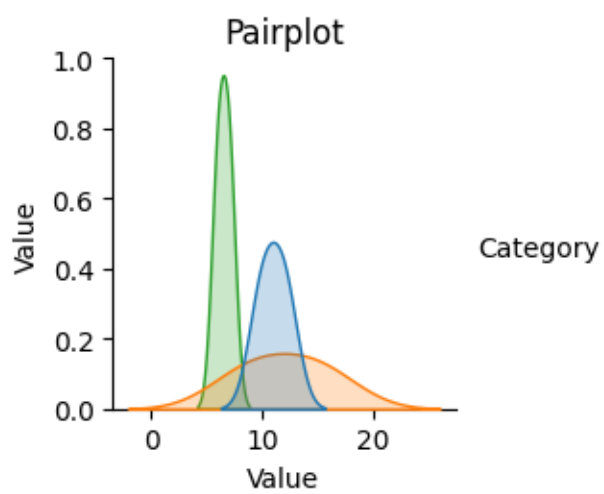
Scatterplot

```
[5]: sns.scatterplot(data=data, x='Category', y='Value')  
plt.title('Scatterplot')  
plt.show()
```



Pairplot

```
[6]: sns.pairplot(data=data, hue='Category')  
plt.title('Pairplot')  
plt.show()
```



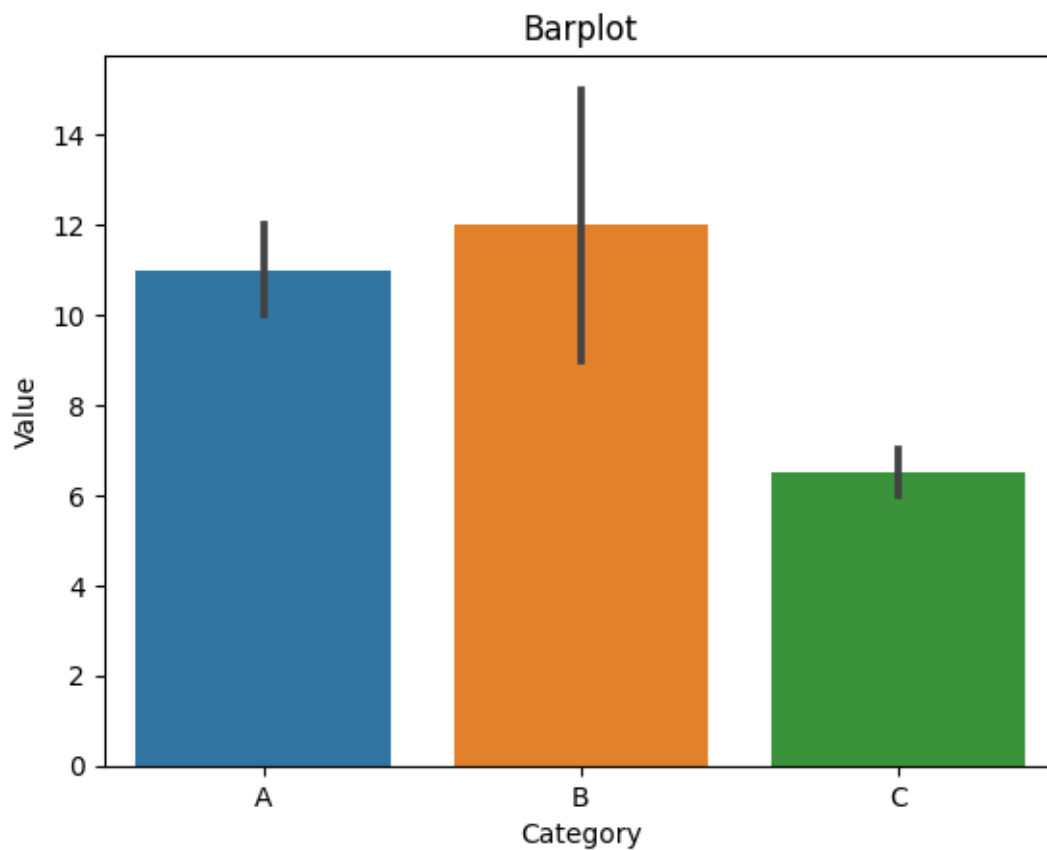
```
# Jointplot
```

```
[ ]: sns.jointplot(data=data, x='Category', y='Value', kind='scatter')  
plt.title('Jointplot')  
plt.show()
```

4 Categorical Data

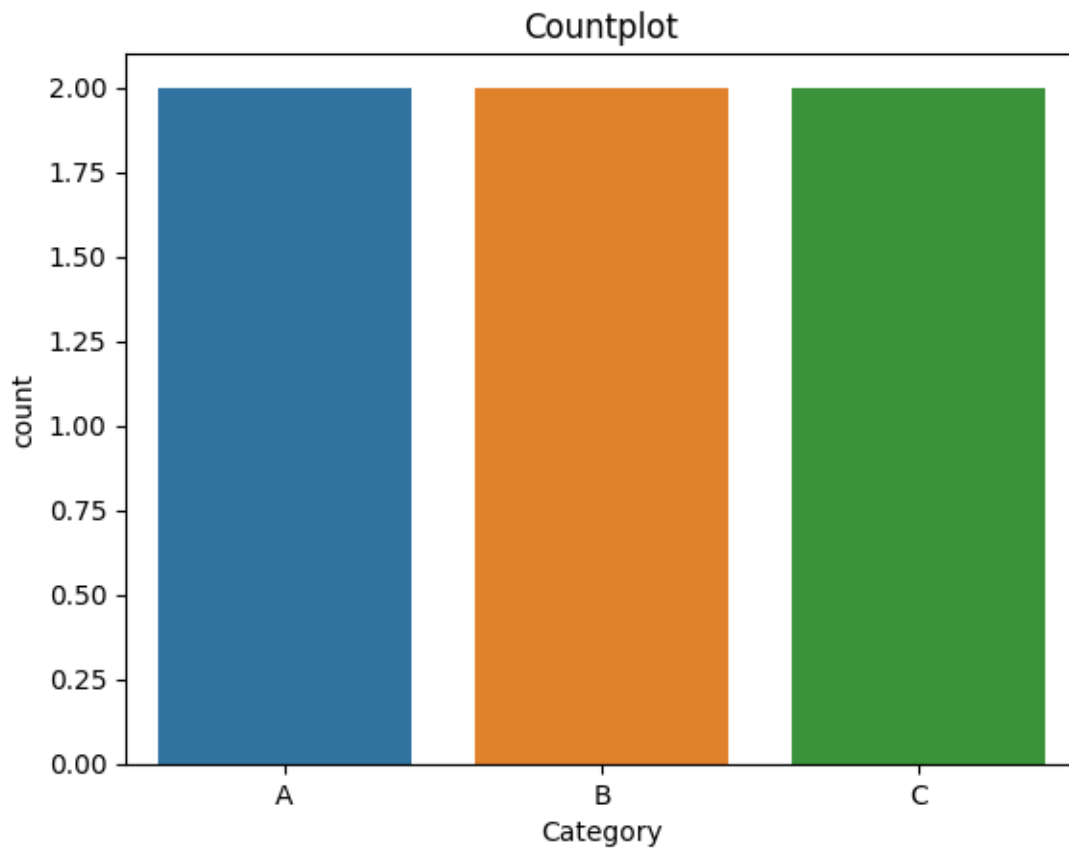
```
# Barplot
```

```
[7]: sns.barplot(data=data, x='Category', y='Value')  
plt.title('Barplot')  
plt.show()
```



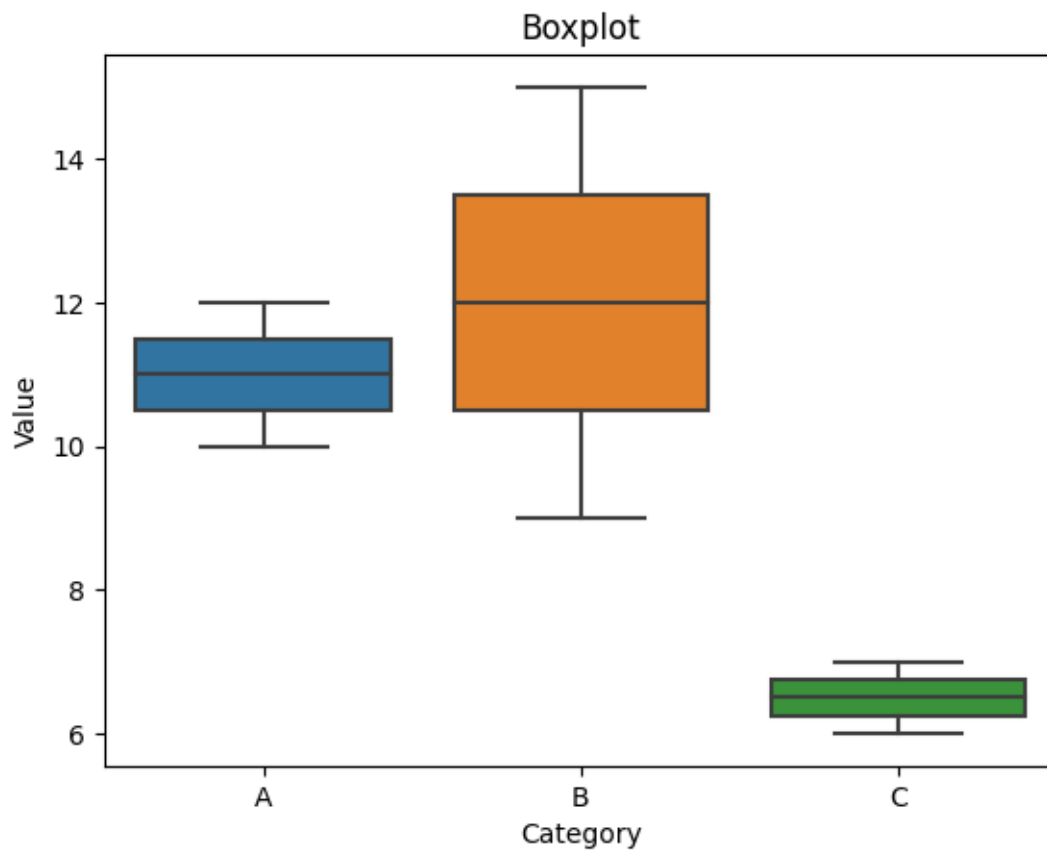
```
# Countplot
```

```
[8]: sns.countplot(data=data, x='Category')  
plt.title('Countplot')  
plt.show()
```



Boxplot

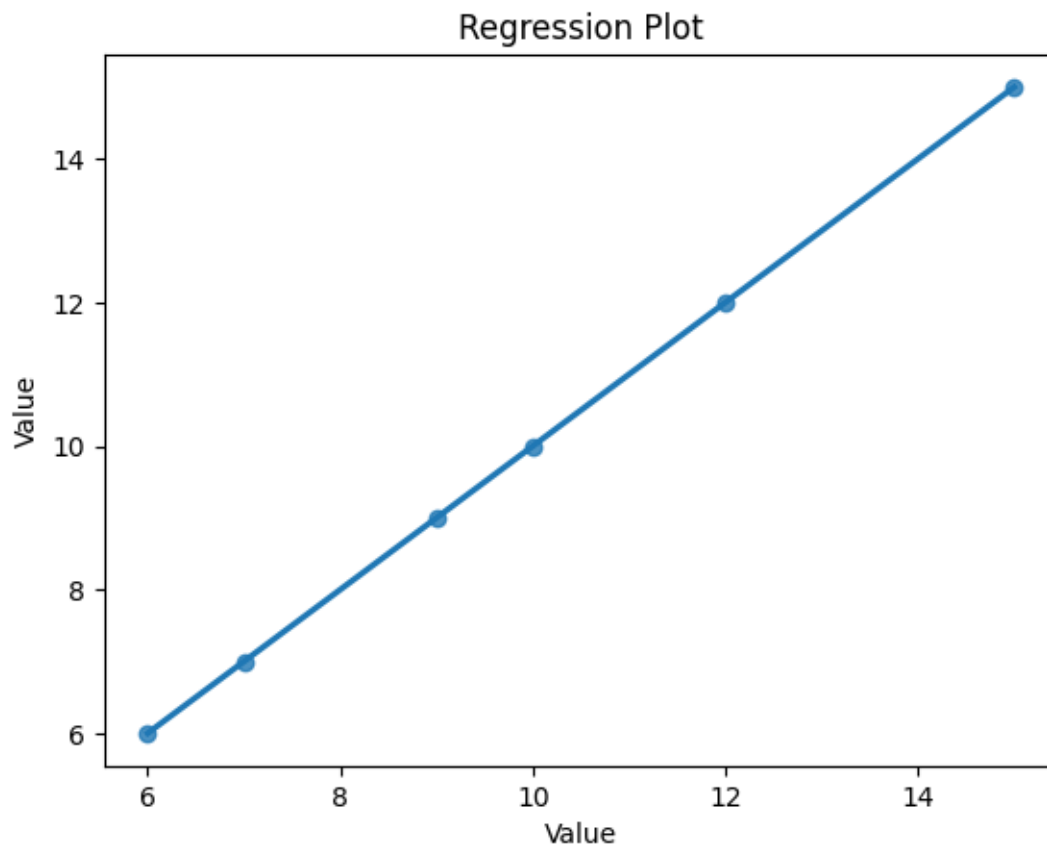
```
[9]: sns.boxplot(data=data, x='Category', y='Value')  
plt.title('Boxplot')  
plt.show()
```



5 Advanced Features

Regression Plot

```
[10]: sns.regplot(data=data, x='Value', y='Value')
plt.title('Regression Plot')
plt.show()
```



6 Creating Dashboards with FacetGrid

```
[14]: g = sns.FacetGrid(data=data, col='Category')
g.map(sns.histplot, 'Value')
plt.title('FacetGrid')
plt.show()
```

