Relational/Statiscal plots

Relational plots are used for Multivariant ananlysis

1.Scatter plot (This Video)

2.Line plot (specially used for time series data)

3.Facetgrid(Plotting multiple graphs side by side)

A scatter plot is a type of plot used in data visualization that displays the relationship between two continuous variables. It is a graph in which the values of two variables are plotted along the X and Y axis, and the resulting data points are displayed as a collection of individual dots or markers.

Each dot in a scatter plot represents a single observation in the data set. The position of the dot on the graph is determined by the values of the two variables being plotted. The X and Y coordinates of each dot correspond to the values of the two variables for that observation.

Scatter plots are useful for visualizing the relationship between two variables and identifying any patterns or trends in the data. They can also be used to identify any outliers or unusual observations in the data set.

1. replot[Figure Level Function]

replot is not a standard Python library or function that I am aware of. It is possible that you are referring to a specific library or function from a third-party package, but without more information it is difficult to say for sure.

If you can provide more details about what you are trying to accomplish or what library you are working with, I may be able to provide more specific guidance.

2. Scatter plot [axes level function]

```
import seaborn as sns
import matplotlib.pyplot as plt
import numpy as np
import pandas as pd

plt.style.use('fivethirtyeight')

data = sns.load_dataset('tips')

data.head()
```

	total_bill	tip	sex	smoker	day	time	size
0	16.99	1.01	Female	No	Sun	Dinner	2
1	10.34	1.66	Male	No	Sun	Dinner	3
2	21.01	3.50	Male	No	Sun	Dinner	3
3	23.68	3.31	Male	No	Sun	Dinner	2
4	24.59	3.61	Female	No	Sun	Dinner	4

```
#relplot
sns.relplot( x ='total_bill', y ='tip', data=
#default value of kind is scatter
```

```
<seaborn.axisgrid.FacetGrid at 0x7f44f283f400>
```


```
#relplot
sns.relplot( x ='total_bill', y ='tip',kind =
#default value of kind is scatter
```

```
<seaborn.axisgrid.FacetGrid at 0x7f44f2d00e80>
```