

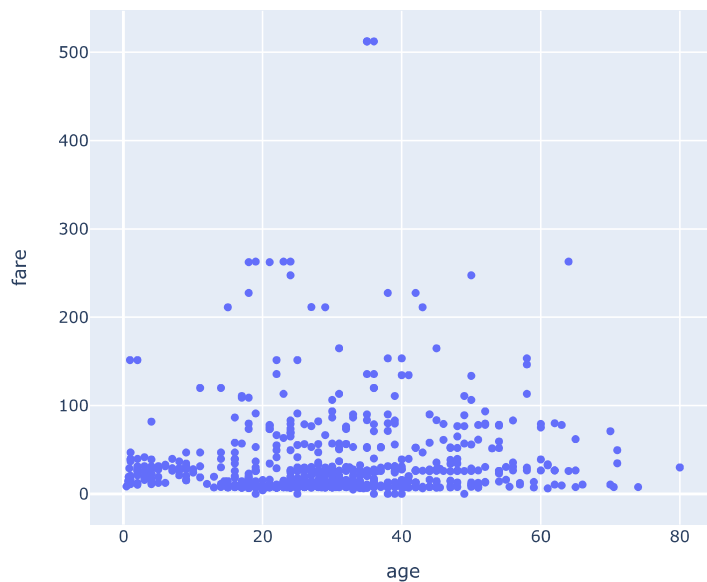

▼ **Q1. Load the "titanic" dataset using the load\_dataset function of seaborn Use Plotly express to plot a scatter plot for age and fare columns in the titanic dataset.**

```
import seaborn as sns
import plotly.express as px

titanic_data = sns.load_dataset('titanic')

fig = px.scatter(titanic_data, x='age', y='fare')

fig.show()
```

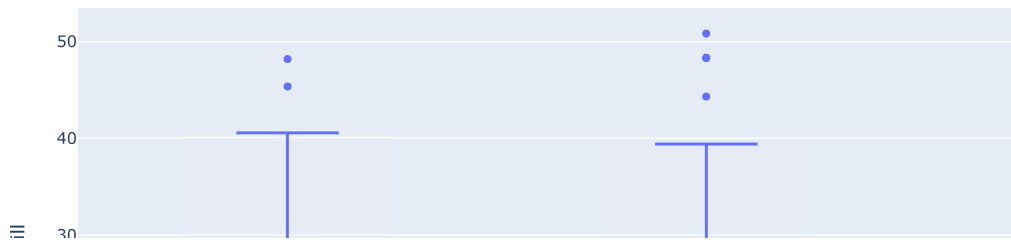


▼ **Q2. Using the tips dataset in the Plotly library, plot a box plot using Plotly express**

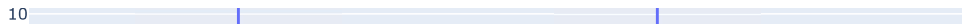
```
tips_data = px.data.tips()

fig = px.box(tips_data, x='day', y='total_bill')

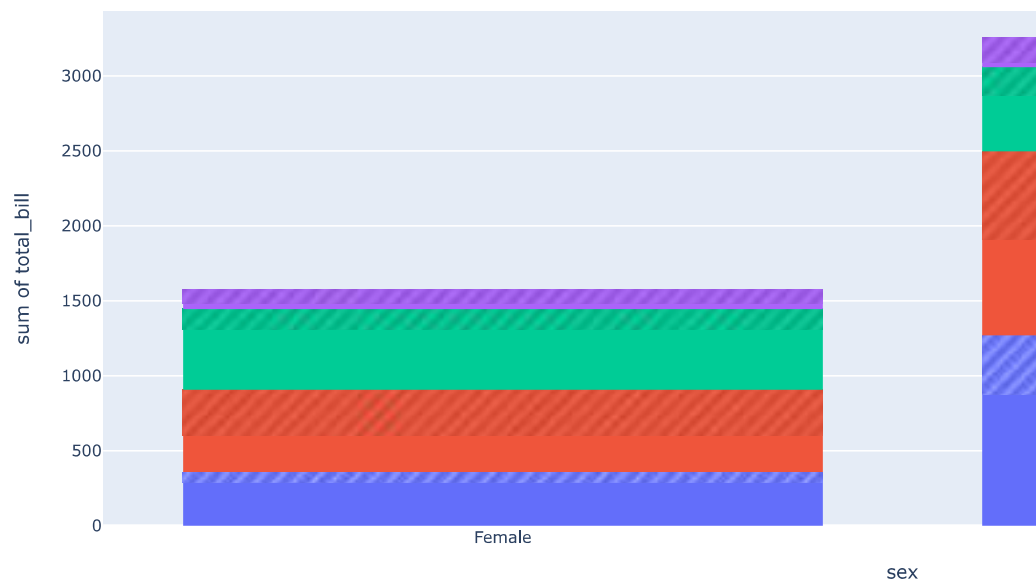
fig.show()
```



Q3. Using the tips dataset in the Plotly library, Plot a histogram for x="sex" and y="total\_bill" column in the tips dataset. Also, use the "smoker" column with the pattern\_shape parameter and the "day" column with the color parameter



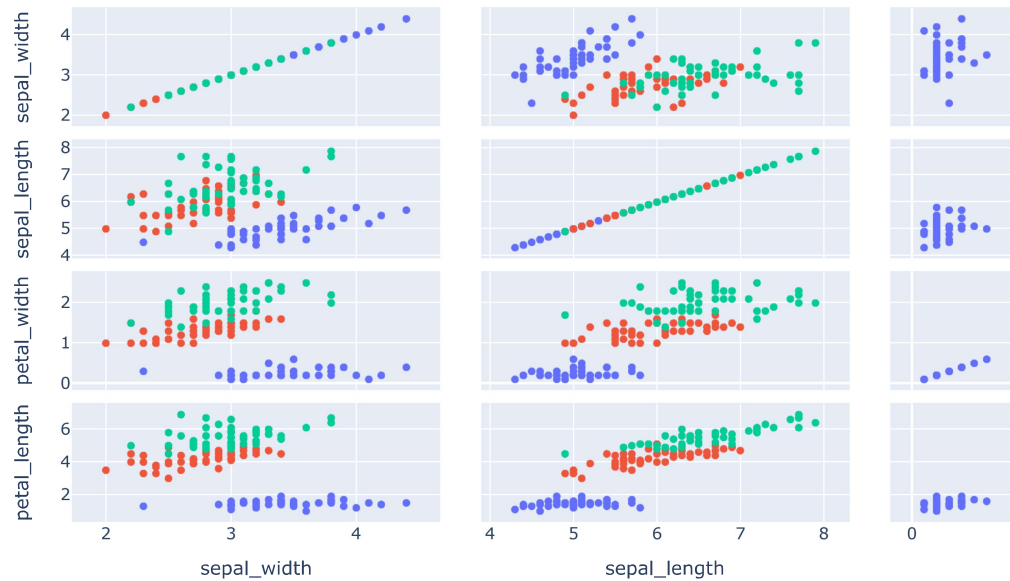
```
tips_data = px.data.tips()
fig = px.histogram(tips_data, x='sex', y='total_bill', pattern_shape='smoker', color="day")
fig.show()
```



Double-click (or enter) to edit

Q4. Using the iris dataset in the Plotly library, Plot a scatter matrix plot, using the "species" column for the color parameter.

```
iris_data = px.data.iris()
fig = px.scatter_matrix(iris_data,
                        dimensions=["sepal_width", "sepal_length", "petal_width", "petal_length"],
                        color="species")
fig.show()
```



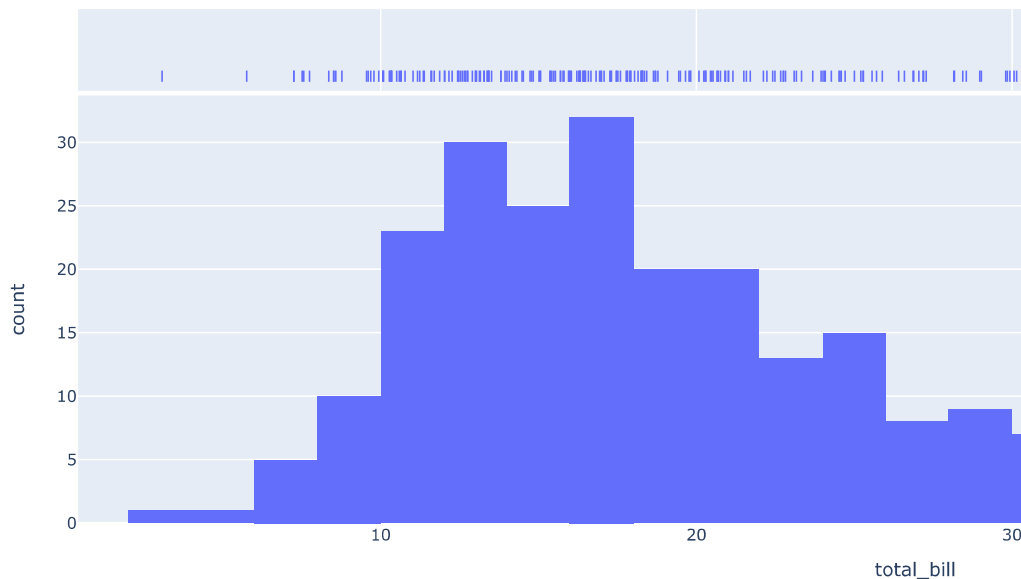
### Q5. What is Distplot? Using Plotly express, plot a distplot.

In Plotly Express, `distplot` is a function used to create a distribution plot, also known as a histogram. It provides a visual representation of the distribution of a single variable or a combination of variables. The plot displays the frequency or density of data points within predefined bins.

```
# e.g)
tips_data = px.data.tips()

fig = px.histogram(tips_data, x="total_bill", marginal="rug", nbins=30)

fig.show()
```



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