

```
#Load the "titanic" dataset using the load_dataset function of seaborn. Use Plotly express to plot a scatter plot for age and fare column
import seaborn as sns
import plotly.express as px

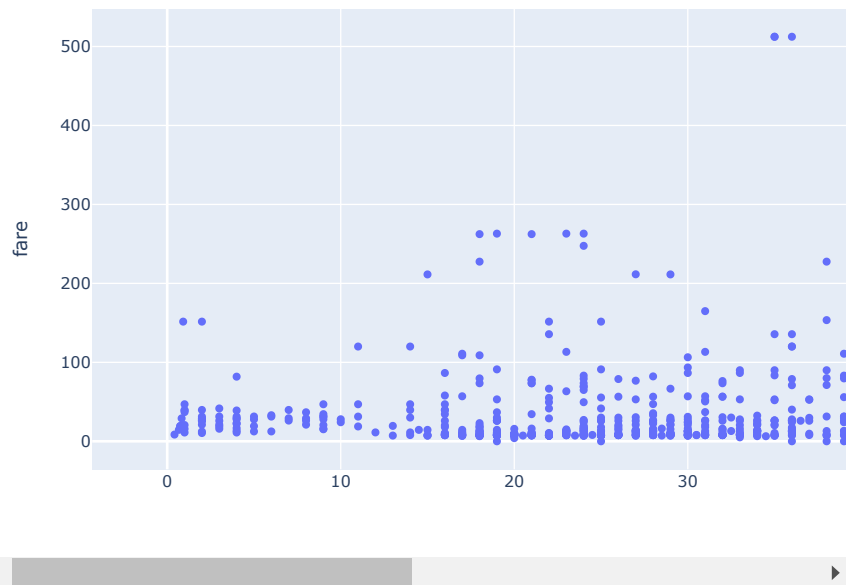
# Load the titanic dataset from seaborn
titanic_data = sns.load_dataset("titanic")

# Create a scatter plot using Plotly Express
fig = px.scatter(titanic_data, x="age", y="fare", title="Titanic Age vs Fare Scatter Plot")

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



Titanic Age vs Fare Scatter Plot



```
#Using the tips dataset in the Plotly library, plot a box plot using Plotly express.
import plotly.express as px

# Load the tips dataset from Plotly Express
tips_data = px.data.tips()

# Create a box plot using Plotly Express
fig = px.box(tips_data, x="day", y="total_bill", color="sex", title="Tips Box Plot")

# Show the plot
fig.show()

#This will load the "tips" dataset from Plotly Express using the tips() function, and then create a box plot with total_bill on the y-axis
```

## Tips Box Plot

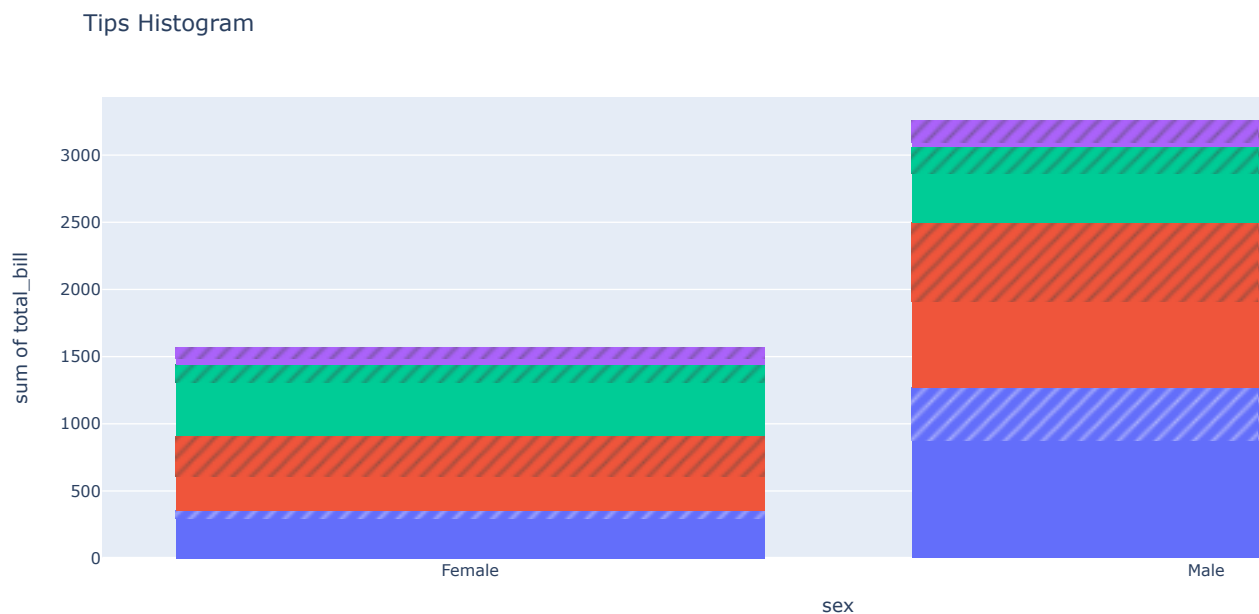
#Using the tips dataset in the Plotly library, Plot a histogram for x= "sex" and y="total\_bill" column in the tips dataset. Also, use the import plotly.express as px

```
# Load the tips dataset from Plotly Express
tips_data = px.data.tips()
```

```
# Create a histogram using Plotly Express
fig = px.histogram(tips_data, x="sex", y="total_bill", color="day", pattern_shape="smoker",
                  title="Tips Histogram")
```

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

#This will create a histogram with the "sex" column on the x-axis and "total\_bill" on the y-axis. The "smoker" column is used with the pa



#Using the iris dataset in the Plotly library, Plot a scatter matrix plot, using the "species" column for the color parameter. import plotly.express as px

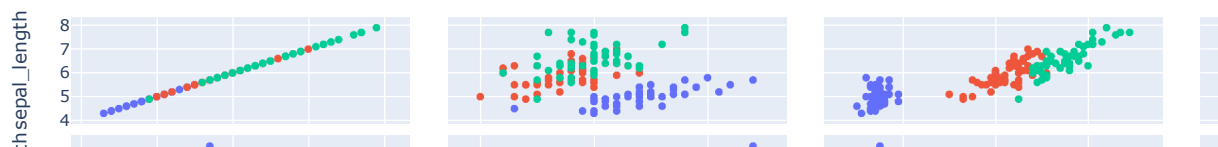
```
# Load the iris dataset from Plotly Express
iris_data = px.data.iris()
```

```
# Create a scatter matrix plot using Plotly Express
fig = px.scatter_matrix(iris_data, dimensions=["sepal_length", "sepal_width", "petal_length", "petal_width"],
                      color="species", title="Iris Scatter Matrix Plot")
```

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

#This will create a scatter matrix plot with the "sepal\_length", "sepal\_width", "petal\_length", and "petal\_width" columns used as dimensi

## Iris Scatter Matrix Plot



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

#Distplot is a visualization tool in seaborn that combines a histogram and a kernel density estimate plot. It is used to visualize the distribution of a single variable. To use it, you need to import plotly.express as px.

# Load the tips dataset from Plotly Express

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

# Create a distplot using Plotly Express

```
fig = px.histogram(tips_data, x="total_bill", nbins=20, marginal="rug", title="Tips Distplot")
```

# Show the plot

```
fig.show()
```

#This will create a distplot with "total\_bill" on the x-axis, 20 bins for the histogram, and marginal rug plot. The resulting plot will show the distribution of total bills with a rug plot on the x-axis.

## Tips Distplot

