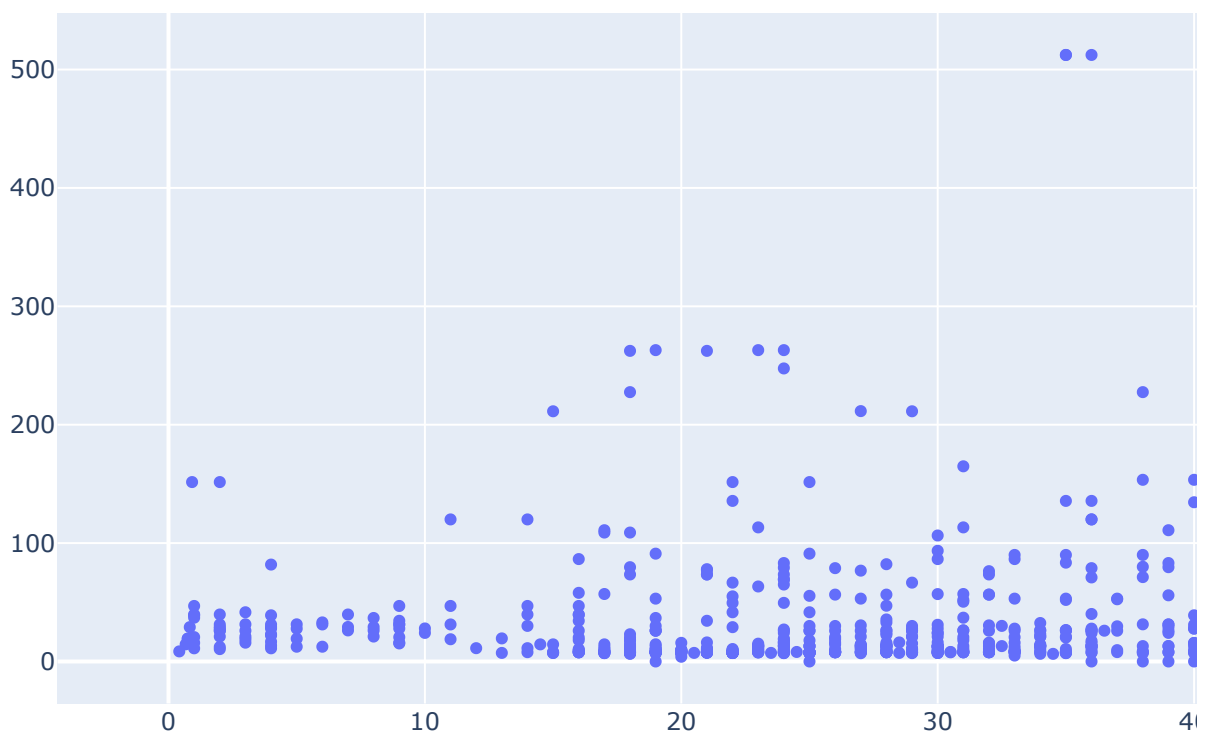
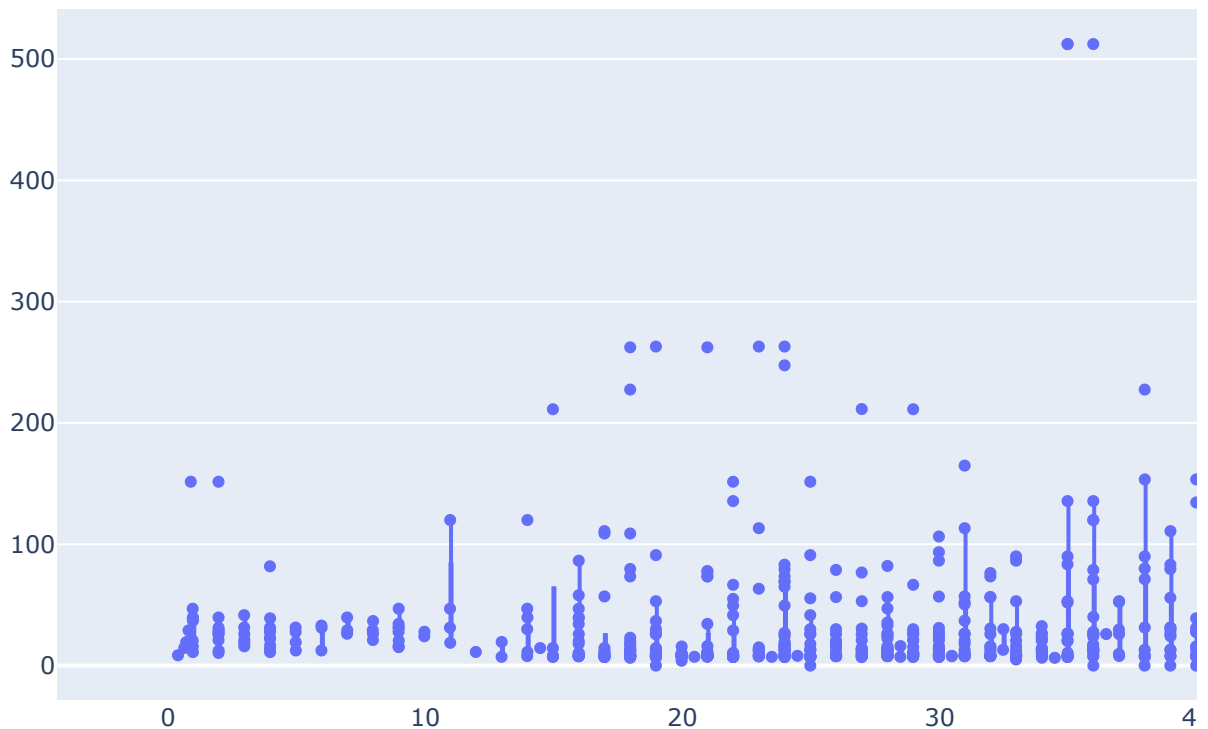


```
# Q1. Load the "titanic" dataset using the load_dataset function of seaborn. Use Plotly ex
# scatter plot for age and fare columns in the titanic dataset.
import plotly.graph_objects as go
import seaborn as sns
titanic = sns.load_dataset('titanic')
fig = go.Figure()
fig.add_trace(go.Scatter(x= titanic['age'], y=titanic['fare'] , mode='markers' ))
fig.show()
```



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

```
#Q2. Using the tips dataset in the Plotly library, plot a box plot using Plotly express.
import plotly.graph_objects as go
import seaborn as sns
titanic = sns.load_dataset('titanic')
fig = go.Figure()
fig.add_trace(go.Box(x= titanic['age'], y=titanic['fare'] , boxpoints='all', jitter=0.3,
fig.show()
```

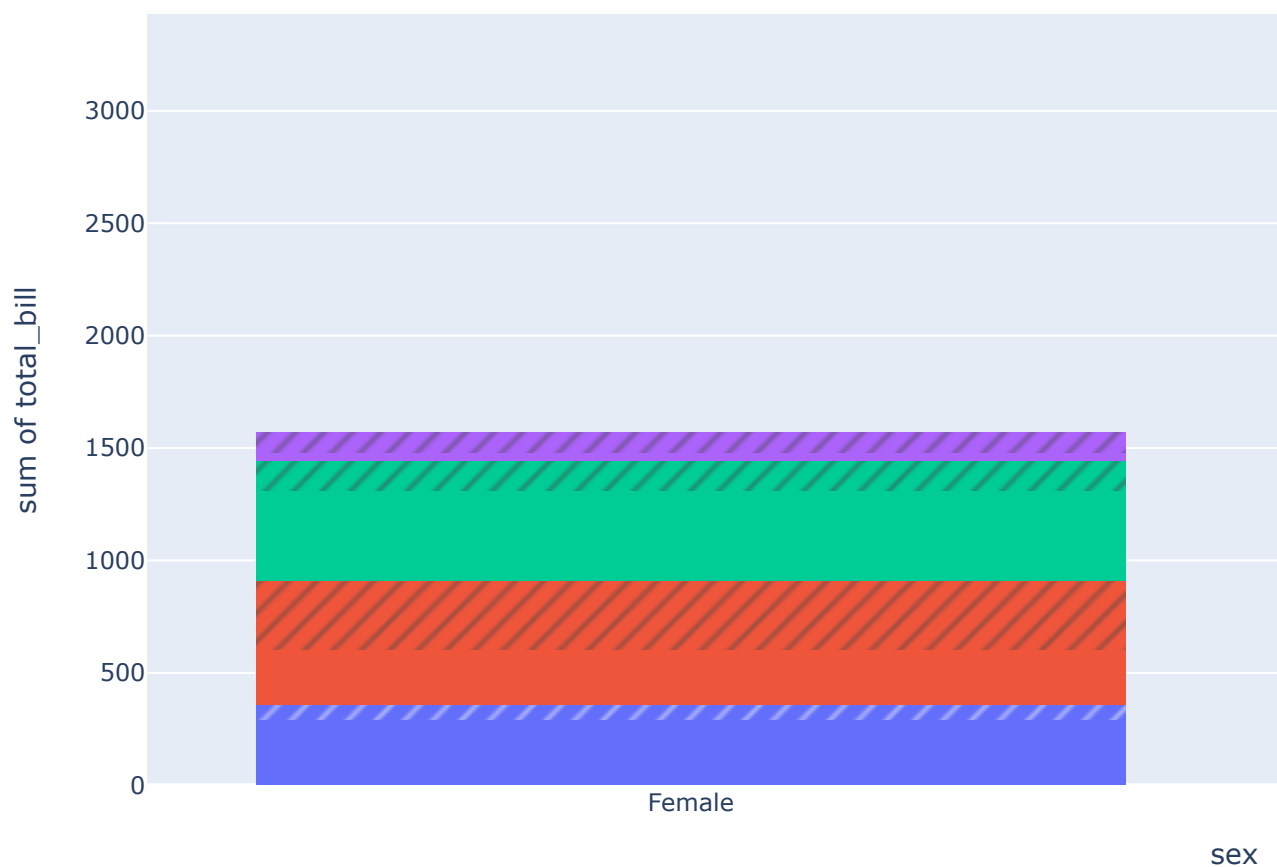


Q3. Using the tips dataset in the Plotly library, Plot a histogram for x= "sex" and y="total_bill" column in the tips dataset. Also, use the "smoker" column with the pattern_shape parameter and the "day" column with the color parameter.

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.

```
import plotly.express as px
tips = px.data.tips()

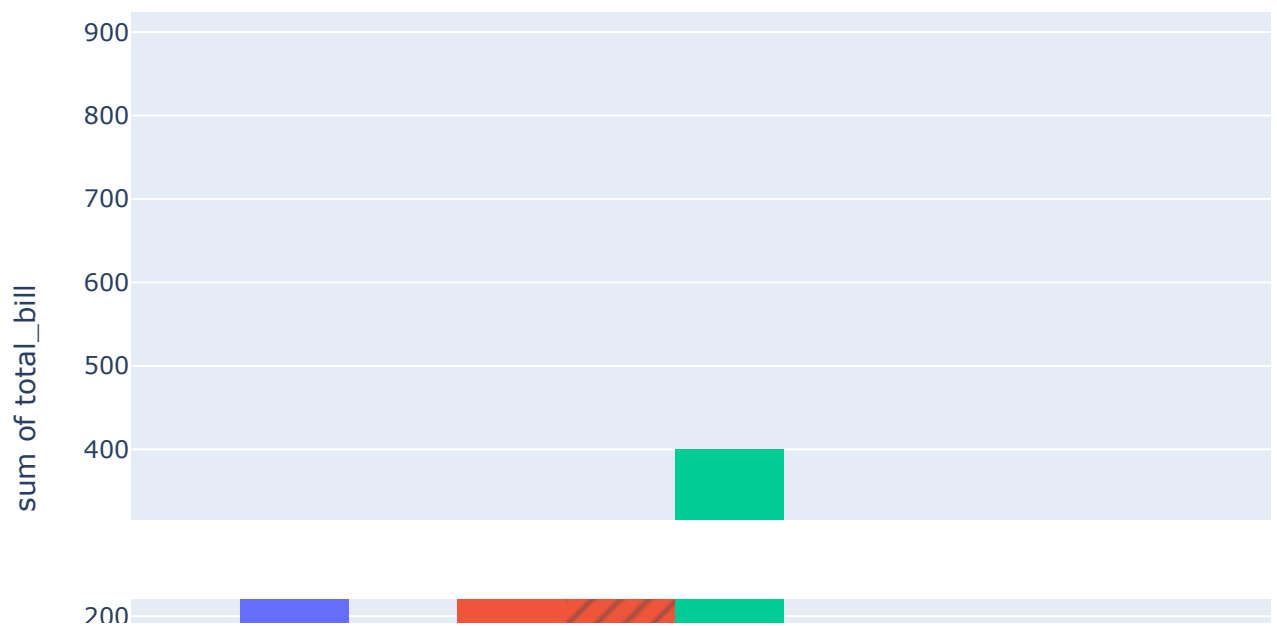
fig = px.histogram(tips, x="sex", y="total_bill", color="day", pattern_shape="smoker")
fig.show()
```



we can do for same with barmode = "group"

```
import plotly.express as px
tips = px.data.tips()
```

```
fig = px.histogram(tips, x="sex", y="total_bill", color="day", barmode="group", pattern_sh
fig.show()
```

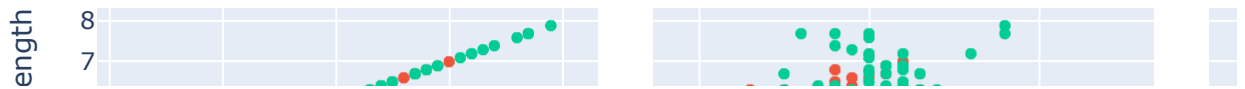


4. Using the iris dataset in the Plotly library, Plot a scatter matrix plot, using the "species" column for the color parameter.

u Female

```
import plotly.express as px
iris = px.data.iris()
```

```
fig = px.scatter_matrix(iris,dimensions=["sepal_length", "sepal_width", "petal_length", "p
fig.show()
```



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

Answer->

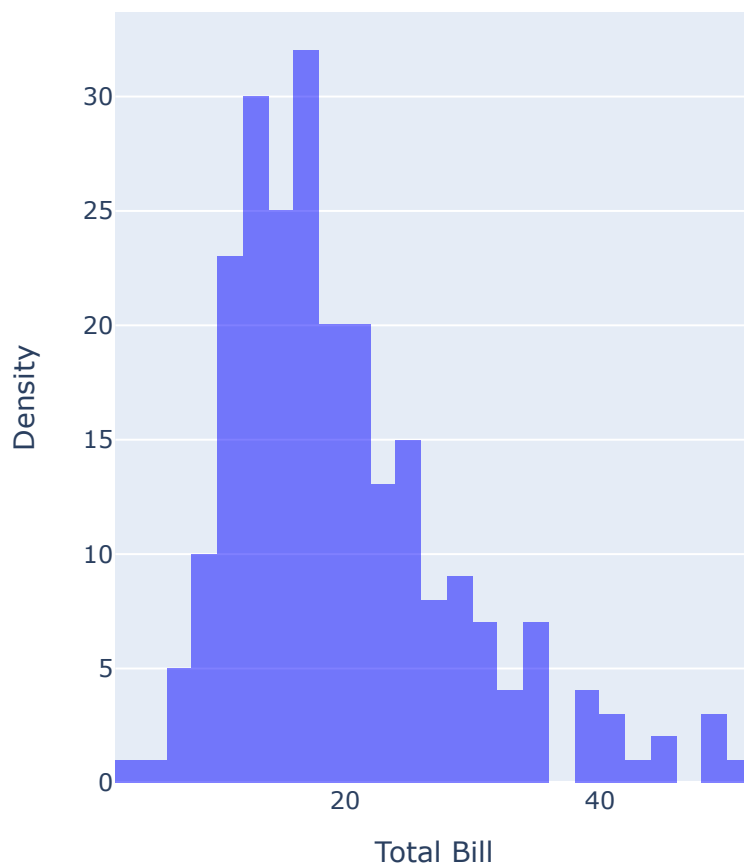
A distplot, short for distribution plot, is a type of plot that shows the distribution of a univariate set of observations. It combines the information provided by a histogram and a kernel density estimate (KDE) into a single plot.



```
import plotly.express as px
tips = px.data.tips()
```

```
fig = px.histogram(tips, x="total_bill", nbins=30, opacity=0.5, color_discrete_sequence=['
fig.update_layout(title="Distribution of Total Bill", xaxis_title="Total Bill", yaxis_title="Density")
fig.show()
```

Distribution of Total Bill



[link text](https://github.com/NitishJain11/Pandas/blob/main/Untitled0.ipynb) code link -> <https://github.com/NitishJain11/Pandas/blob/main/Untitled0.ipynb>

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