

04 MARCH ASSIGNMENT

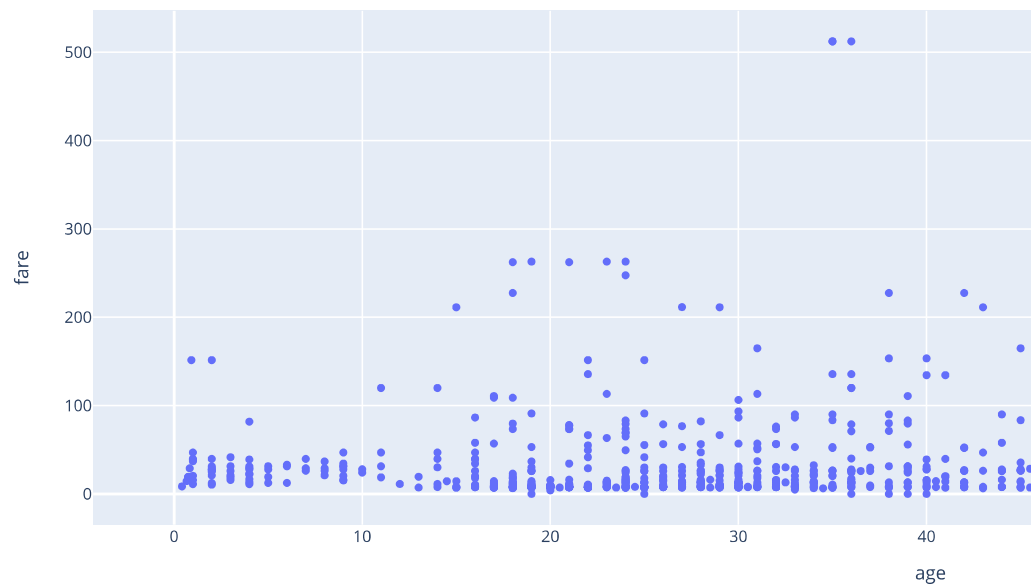
1.

```
import plotly.graph_objects as go

import seaborn as sns

import plotly.express as px

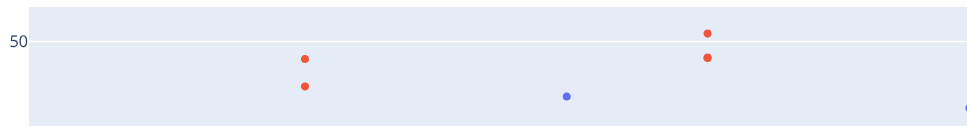
titanic = sns.load_dataset('titanic')
fig = px.scatter(titanic, x='age', y='fare')
fig.show()
```



2.

```
import plotly.express as px

tips = px.data.tips()
fig = px.box(tips, x='day', y='total_bill', color='sex')
fig.show()
```

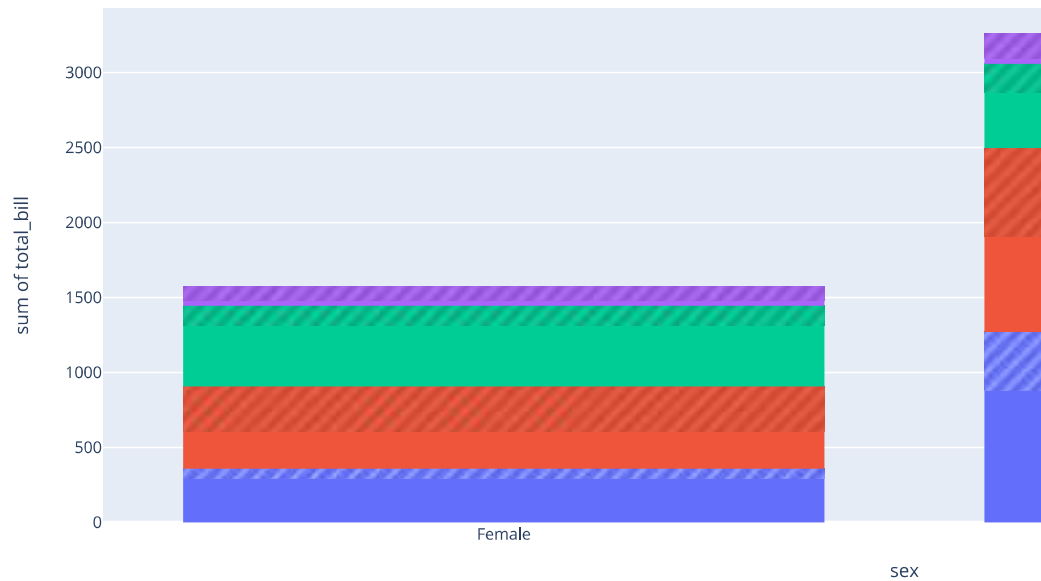


3.



```
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()
```



4.

```
iris = px.data.iris()
```

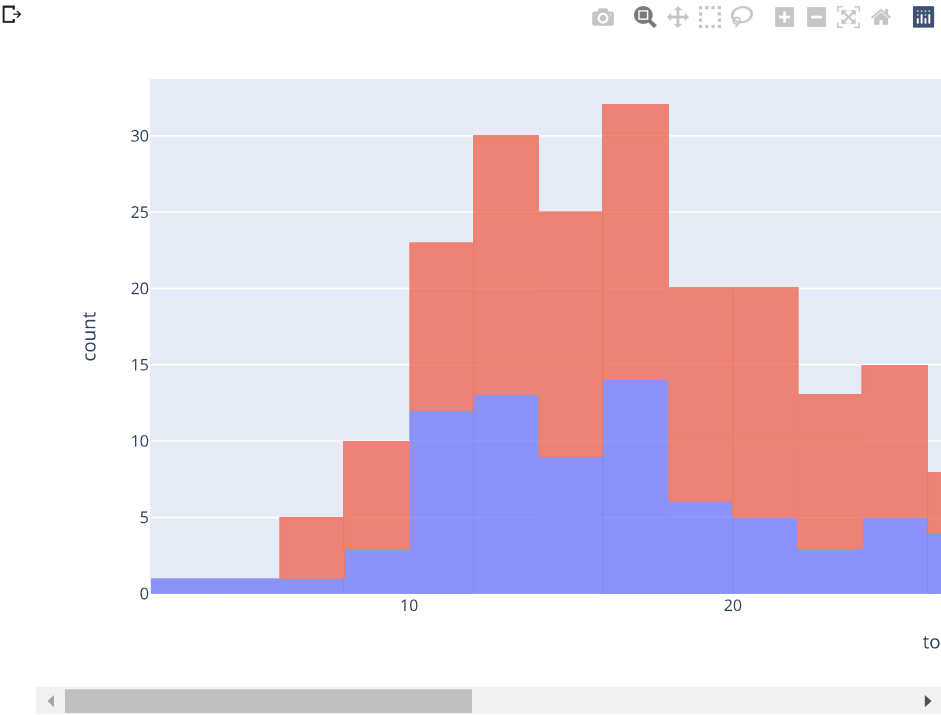
```
fig = px.scatter_matrix(iris, dimensions=['sepal_length', 'sepal_width', 'petal_length', 'petal_width'], color='species')
fig.show()
```



5.

distplot is a function in the Seaborn library used to plot a histogram and a kernel density estimate (KDE) of a dataset. It provides a convenient way to visualize the distribution of a single variable.

```
s 2 . . . . .
tips = px.data.tips()
fig = px.histogram(tips, x='total_bill', color='sex', opacity=0.7)
fig.show()
```



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