""" 1) 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."""

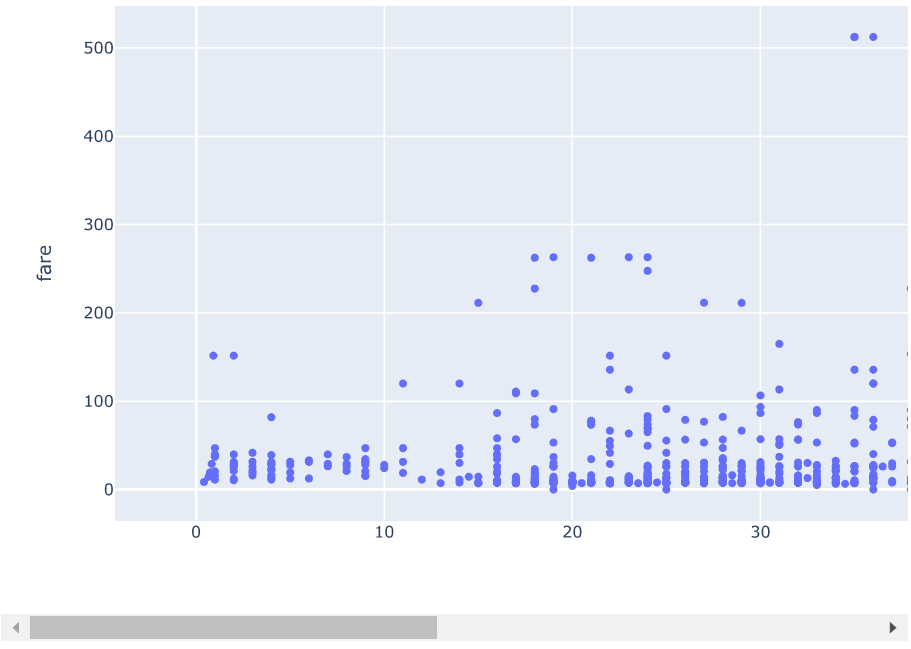
```
' 1) Load the "titanic" dataset using the load_dataset function of seaborn. Use Plotly express to plot
a \nscatter plot for age and fare columns in the titanic dataset.'
```

```
import seaborn as sns
d1= sns.load_dataset("titanic")
d1
```

	survived	pclass	sex	age	sibsp	parch	fare	embarked	class	who	adult_male	deck	e
0	0	3	male	22.0	1	0	7.2500	S	Third	man	True	NaN	S
1	1	1	female	38.0	1	0	71.2833	C	First	woman	False	C	
2	1	3	female	26.0	0	0	7.9250	S	Third	woman	False	NaN	S
3	1	1	female	35.0	1	0	53.1000	S	First	woman	False	C	S
4	0	3	male	35.0	0	0	8.0500	S	Third	man	True	NaN	S
...	...	...	...	...	...	...	...	...	...	...	...	...	
886	0	2	male	27.0	0	0	13.0000	S	Second	man	True	NaN	S
887	1	1	female	19.0	0	0	30.0000	S	First	woman	False	B	S
888	0	3	female	NaN	1	2	23.4500	S	Third	woman	False	NaN	S
889	1	1	male	26.0	0	0	30.0000	C	First	man	True	C	
890	0	3	male	32.0	0	0	7.7500	Q	Third	man	True	NaN	(

891 rows × 15 columns

```
import plotly.express as px
fig = px.scatter(d1,x="age", y="fare")
fig.show()
```



"""2) Using the tips dataset in the Plotly library, plot a box plot using Plotly express."""

```
'2) Using the tips dataset in the Plotly library, plot a box plot using Plotly express.'
```

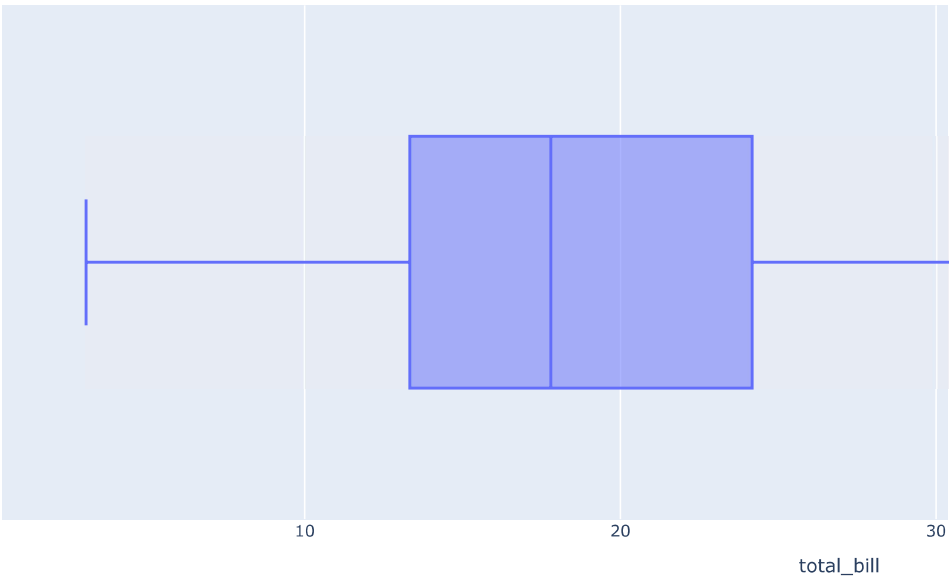
```
import plotly.express as px
d2= px.data.tips()
```

```
d2
```

	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
...	...	...	...	...	...	...	...
239	29.03	5.92	Male	No	Sat	Dinner	3
240	27.18	2.00	Female	Yes	Sat	Dinner	2
241	22.67	2.00	Male	Yes	Sat	Dinner	2
242	17.82	1.75	Male	No	Sat	Dinner	2
243	18.78	3.00	Female	No	Thur	Dinner	2

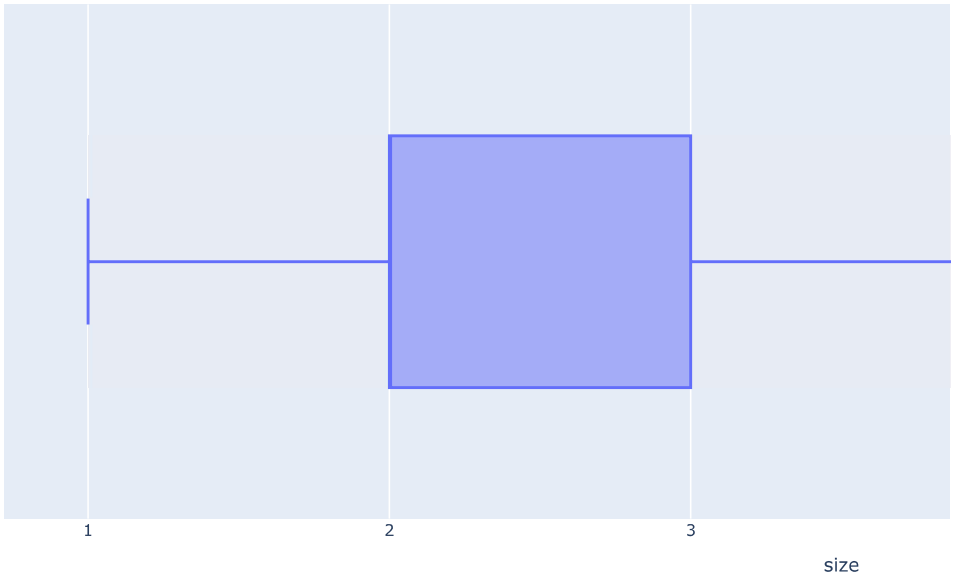
244 rows × 7 columns

```
fig= px.box(d2,x="total_bill")
fig.show()
```




```
fig= px.box(d2,x="tip")
fig.show()
```

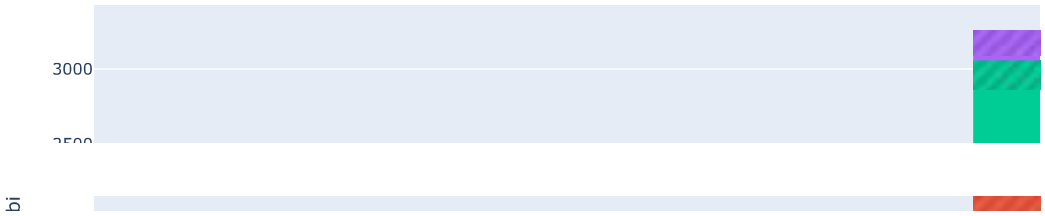
```
fig= px.box(d2,x="size")
fig.show()
```




```
"""3)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."""
```

```
'3)Using the tips dataset in the Plotly library, Plot a histogram for x= "sex" and y="total_bill" colu
mn in \nthe tips dataset. Also, use the "smoker" column with the pattern_shape parameter and the "day"
\ncolumn with the color parameter.'
```

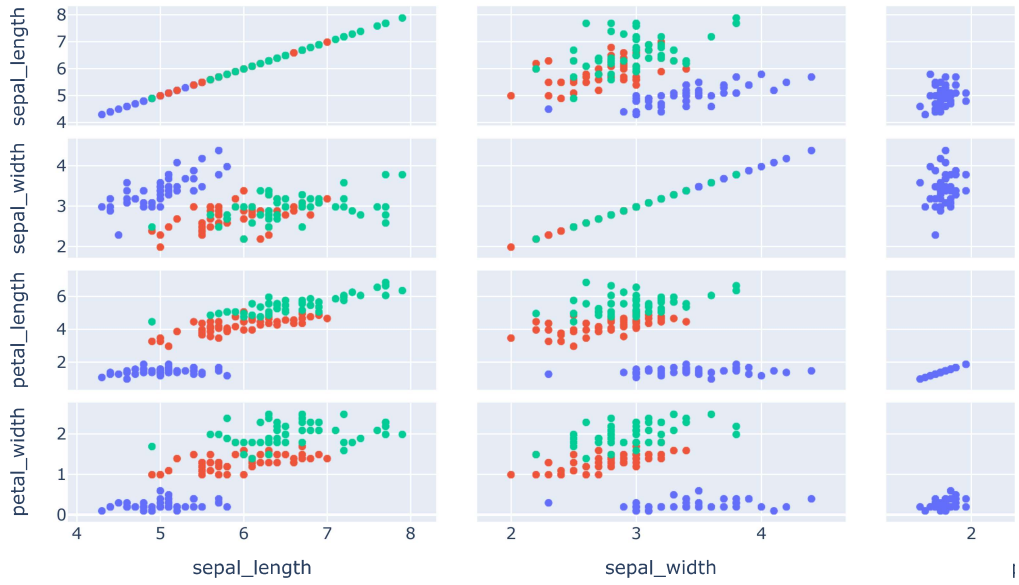
```
figure= px.histogram(d2,x="sex",y="total_bill",pattern_shape="smoker",color="day")
figure.show()
```



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

'4) Using the iris dataset in the Plotly library, Plot a scatter matrix plot, using the "species" colu
mn for \nthe color parameter'

```
d3=px.data.iris()
figure2=px.scatter_matrix(d3,color="species",dimensions=["sepal_length","sepal_width","petal_length","petal_width"])
figure2.show()
```

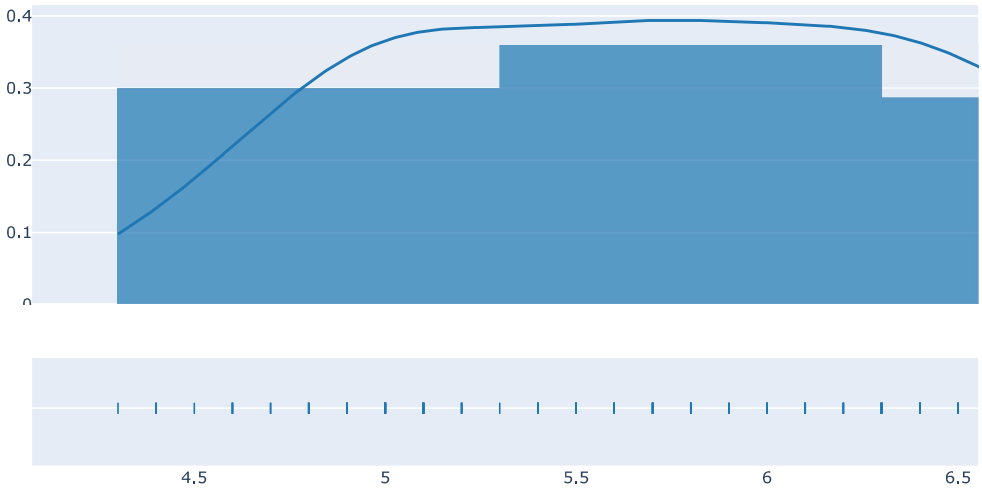


"""5)what is Distplot? Using Plotly express, plot a distplot"""

'5)what is Distplot? Using Plotly express, plot a distplot'

```
#A distribution plot, also known as a Distplot, displays the variation in data distribution. The data is represented by a combination of the
```

```
import plotly.figure_factory as px2
labels = ['distplot']
figure3 = px2.create_distplot([d3.sepal_length],labels)
figure3.show()
```



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