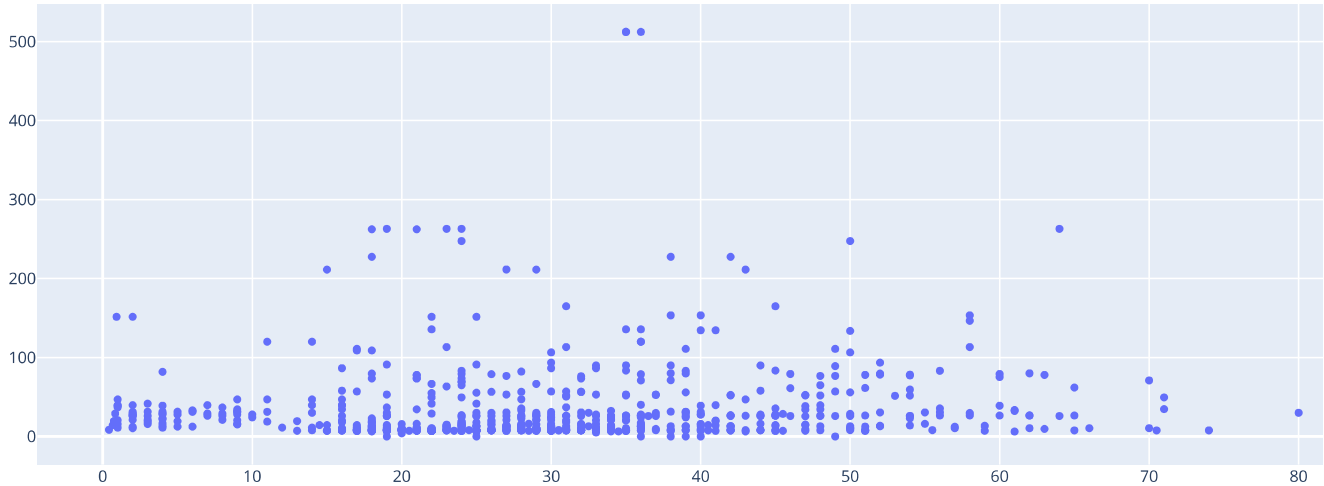
```
import plotly.graph_objects as go
import seaborn as sns


#1
titanic = sns.load_dataset('titanic')
titanic_fig = go.Figure()
titanic_fig.add_trace(go.Scatter(x = titanic.age,y = titanic.fare,mode = 'markers'))
```

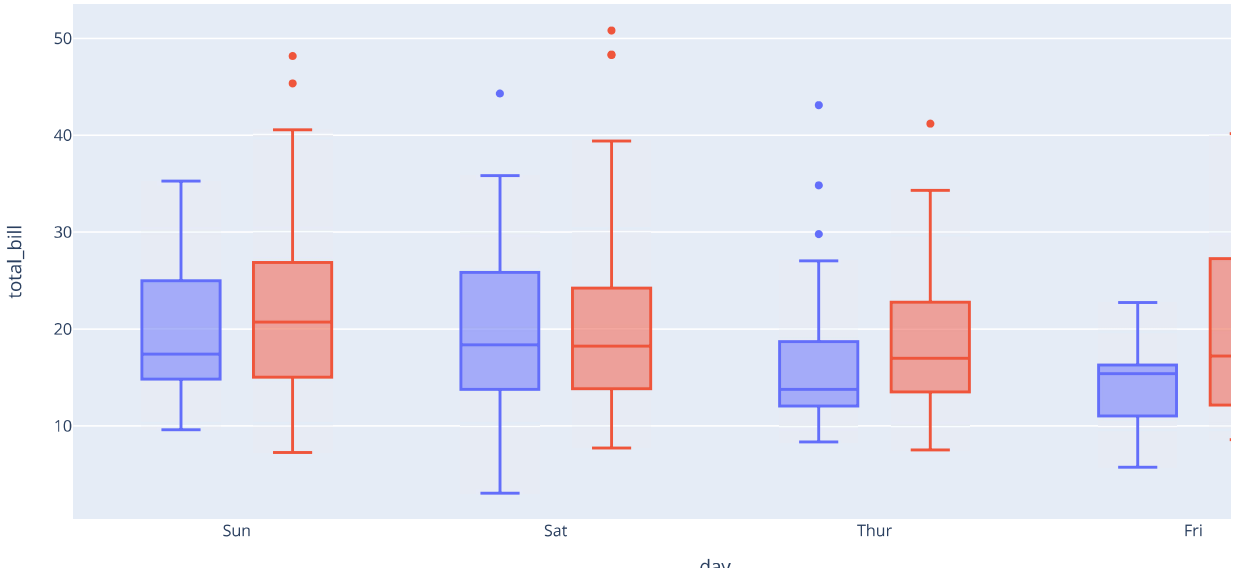



```
#2
tips = sns.load_dataset('tips')
tips
```

	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

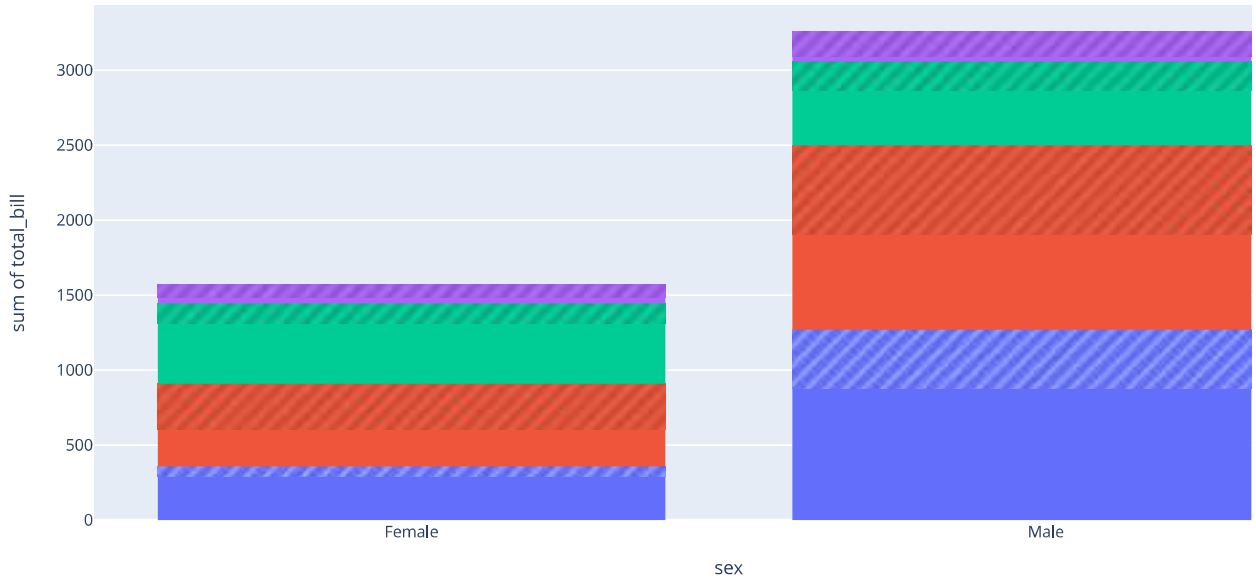
244 rows × 7 columns

```
import plotly.express as px

tips_data = px.data.tips()

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



#3

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

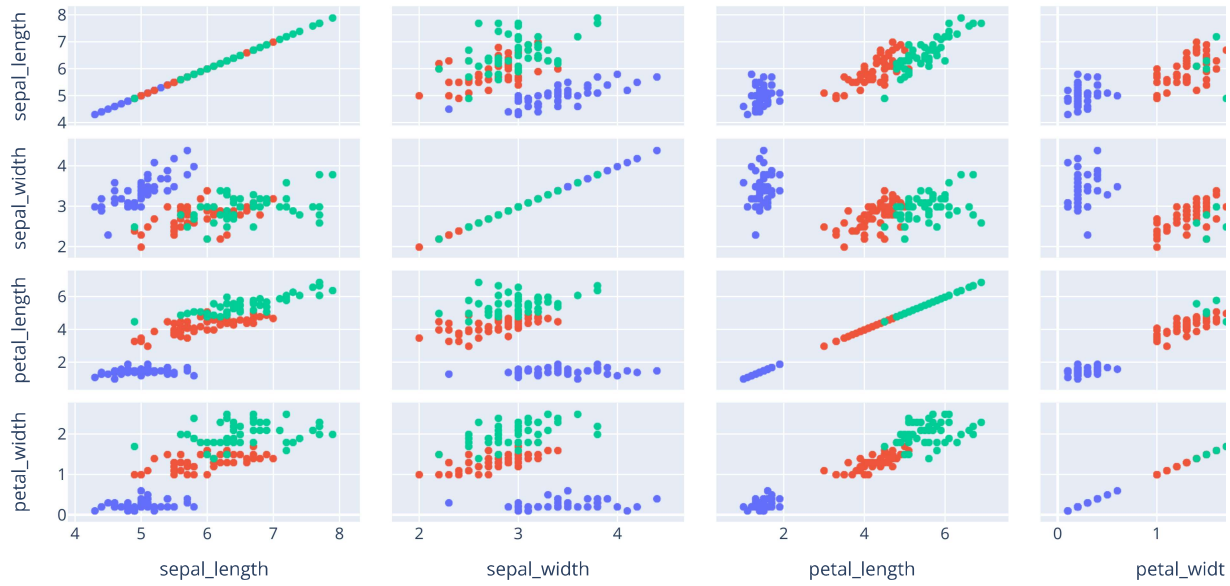


#4

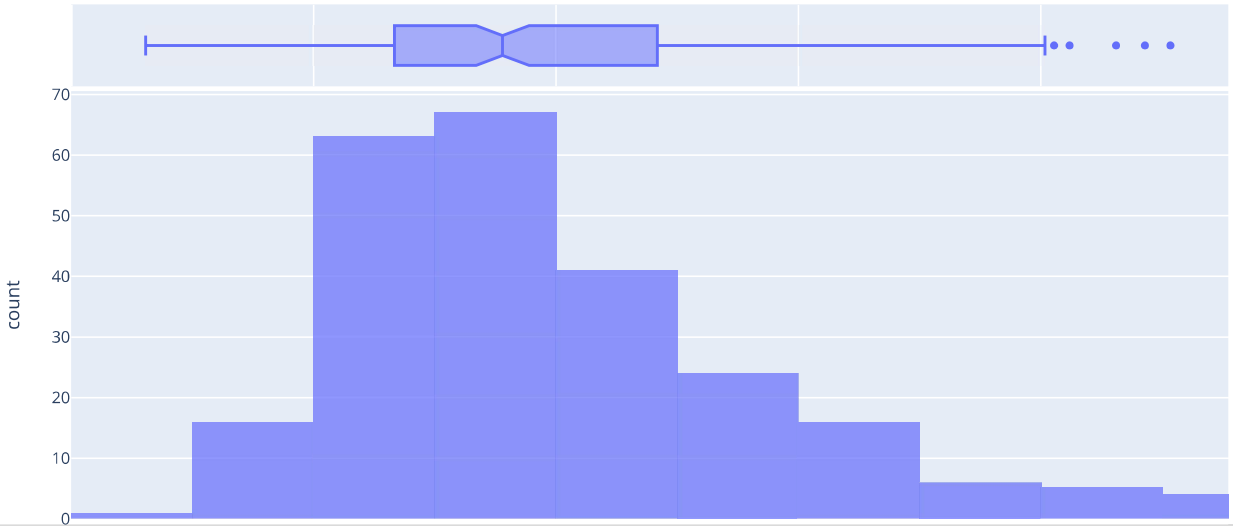
```
iris = px.data.iris()
iris
```

	sepal_length	sepal_width	petal_length	petal_width	species	species_id
0	5.1	3.5	1.4	0.2	setosa	1
1	4.9	3.0	1.4	0.2	setosa	1
2	4.7	3.2	1.3	0.2	setosa	1
3	4.6	3.1	1.5	0.2	setosa	1

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




```
#5
'''A distplot is a plot that shows the distribution of a univariate set of observations.
 It combines a histogram with a kernel density estimation (KDE) plot,
 which shows an estimate of the probability density function of the variable.'''

fig = px.histogram(tips, x="total_bill", nbins=20, opacity=0.7, marginal="box")
fig.show()
```



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