

Plotly Charts

- used in industries and development purpose
- gives more information
- more dynamic in nature

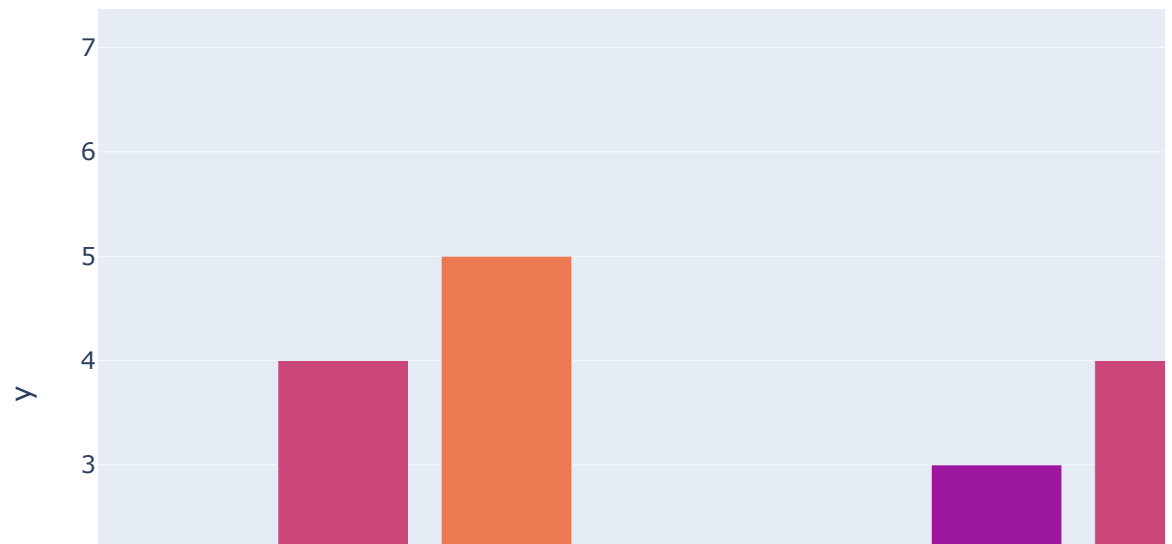
```
In [ ]: 1 !pip install plotly      # install plotly if its not in your system
```

```
In [1]: 1 # import plotly in-order to use it
        2
        3 import plotly.express as px
```

```
In [7]: 1 x = [1,2,3,4,5,6,7,8,9,10]
        2 y = [2,4,5,1,2,3,4,5,6,7]
```

Bar Plot

```
In [13]: 1 px.bar(x = x,y=y, color = y)
```

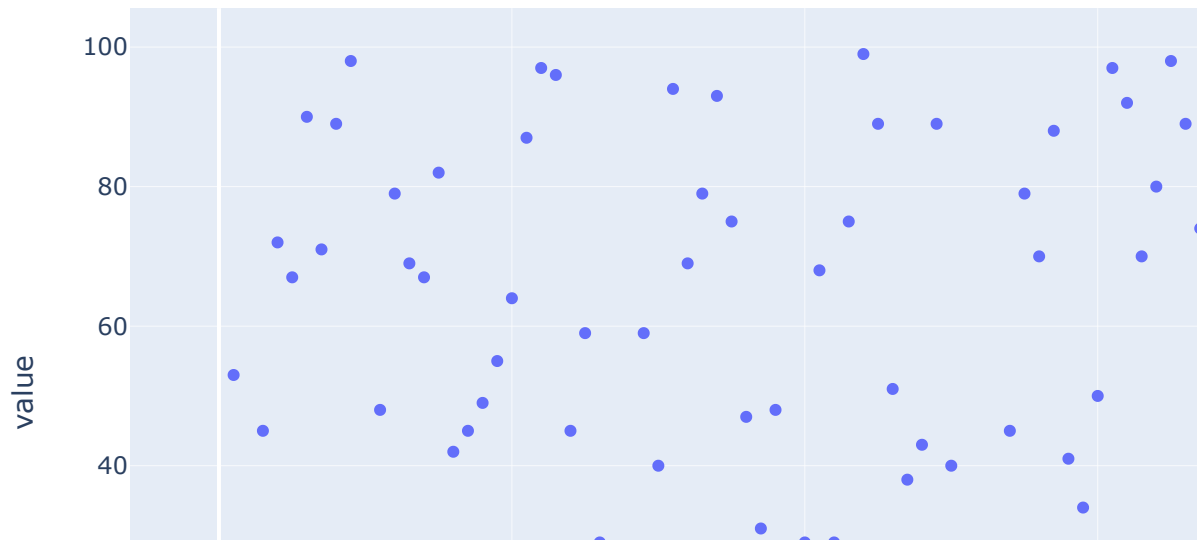


```
In [20]: 1 px.bar(x = y, y = x, orientation = 'h')
```



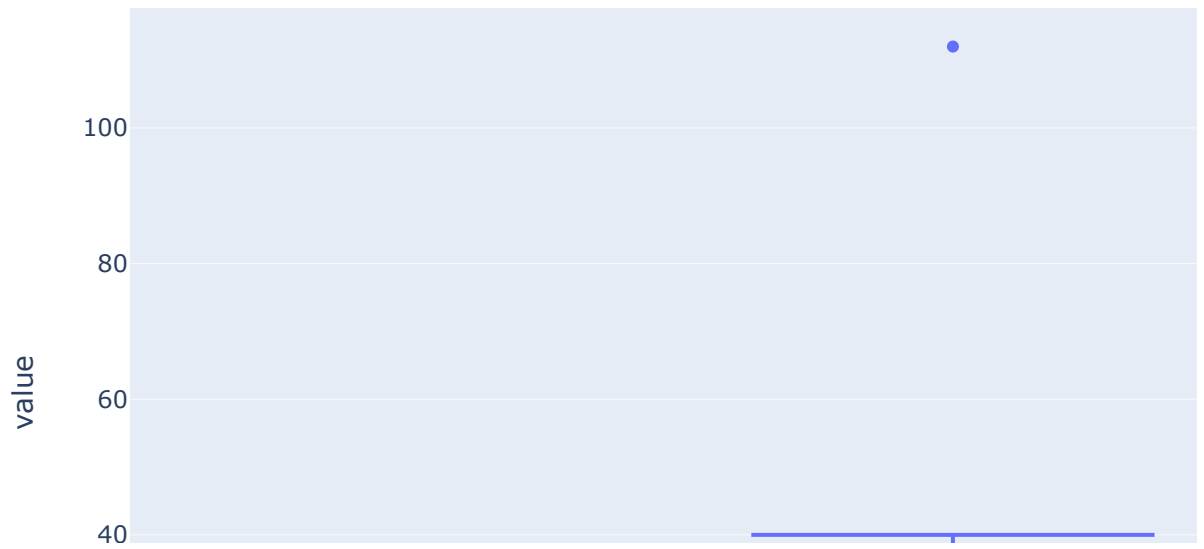
Scatter Plot

```
In [22]: 1 import numpy as np
2
3 y = np.random.randint(1,100,100)
4
5 px.scatter(y)
```



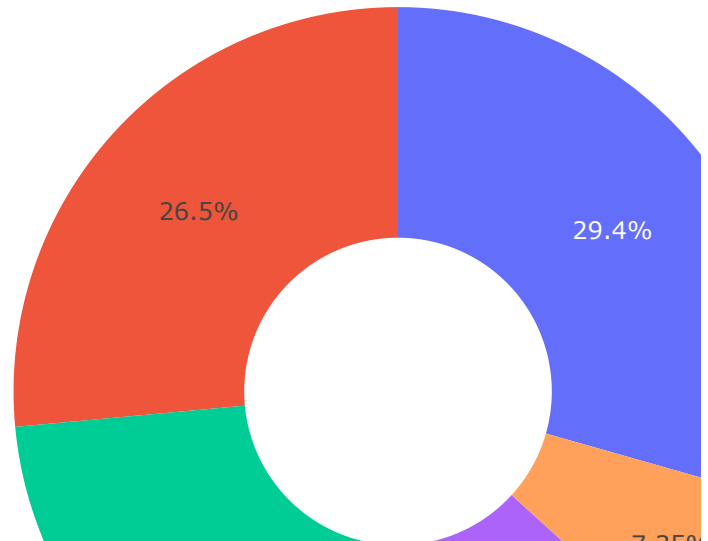
Box Plot

```
In [23]: 1 y = [10,11,16,14,112,18,19,20,30,40]  
2  
3 px.box(y)
```



Pie Charts

```
In [31]: 1 x = ['Apple', 'Banana', 'Cherry', 'Strawberry', 'Kiwi']  
2 y = [200, 150, 100, 180, 50]  
3  
4 px.pie(names = x, values = y, hole = 0.4 )
```



Heatmap

```
In [36]: 1 import pandas as pd
2
3
4 y1 = [1,2,3,4,5,6]
5 y2 = [3,3,7,4,9,8]
6 y3 = [5,6,7,8,9,10]
7
8 df = pd.DataFrame({'y1':y1, 'y2':y2, 'y3':y3})
9 df
```

Out[36]:

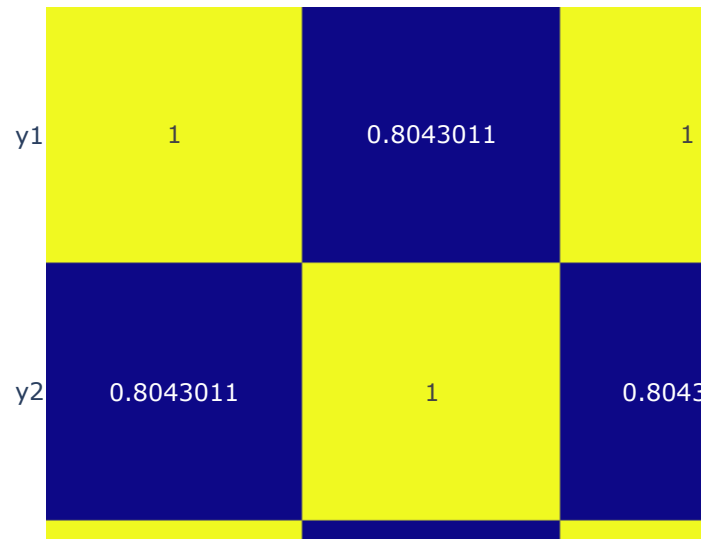
	y1	y2	y3
0	1	3	5
1	2	3	6
2	3	7	7
3	4	4	8
4	5	9	9
5	6	8	10

```
In [37]: 1 df.corr()
```

Out[37]:

	y1	y2	y3
y1	1.000000	0.804301	1.000000
y2	0.804301	1.000000	0.804301
y3	1.000000	0.804301	1.000000

```
In [41]: 1 px.imshow(df.corr(), text_auto = True)
```



More about plotly charts:

<https://plotly.com/python/> (<https://plotly.com/python/>)

```
In [ ]: 1
```