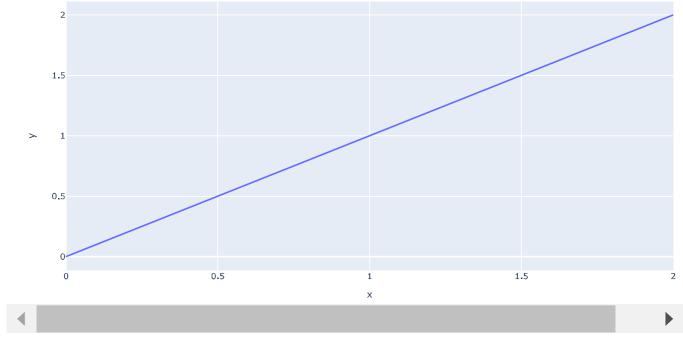
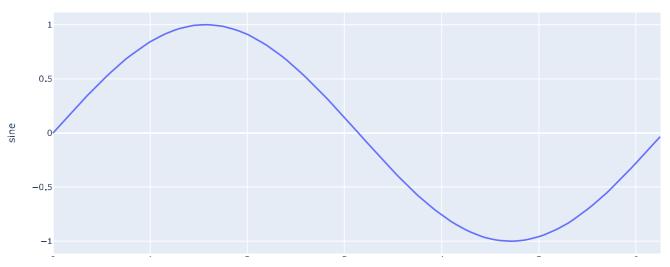
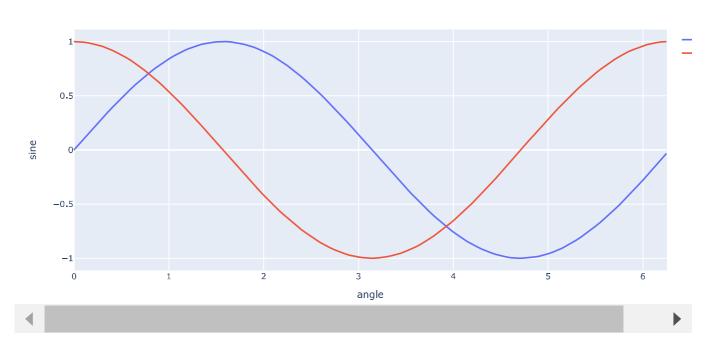
```
#SINE AND COS WAVE
import plotly.express as px
fig = px.line(x=[0,1,2], y=[0,1,2])
fig.show
'orientation': 'v',
                   'showlegend': False,
                   'type': 'scatter',
                   'x': array([0, 1, 2]),
                   'xaxis': 'x',
                   'y': array([0, 1, 2]),
         'yaxis': 'y'}],
'layout': {'legend': {'tracegroupgap': 0},
                    'margin': {'t': 60},
'template': '...',
                    'xaxis': {'anchor': 'y', 'domain': [0.0, 1.0], 'title': {'text': 'x'}},
'yaxis': {'anchor': 'x', 'domain': [0.0, 1.0], 'title': {'text': 'y'}}}
     })>
fig.show()
```

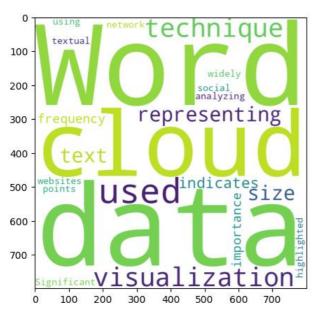


Sine wave

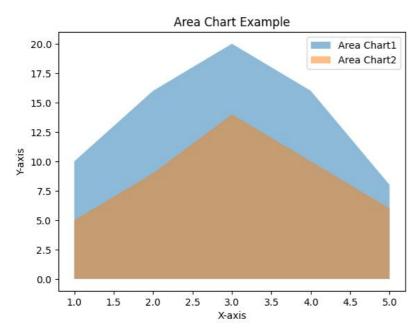


Sine and Cos wave





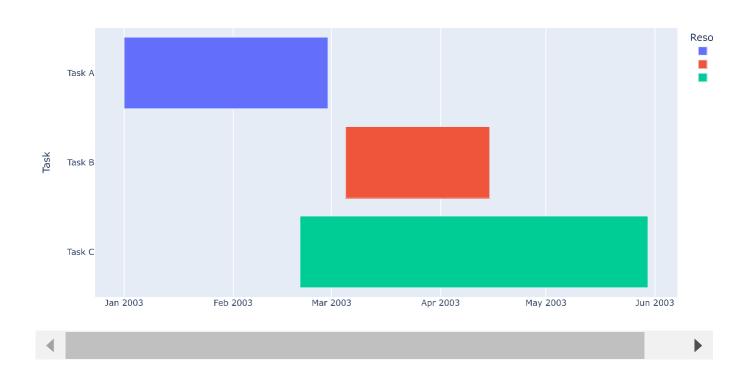
```
#AREA CHART
import matplotlib.pyplot as plt
x1 = [1, 2, 3, 4, 5]
x2 = [10, 16, 20, 16, 8]
x3 = [5, 9, 14, 10, 6]
plt.fill_between(x1, x2, alpha=0.5, label='Area Chart1')
plt.fill_between(x1, x3, alpha=0.5, label='Area Chart2')
plt.xlabel('X-axis')
plt.ylabel('Y-axis')
plt.title('Area Chart Example')
plt.legend()
plt.show()
```



```
#GanttChart
import plotly.express as px
import pandas as pd

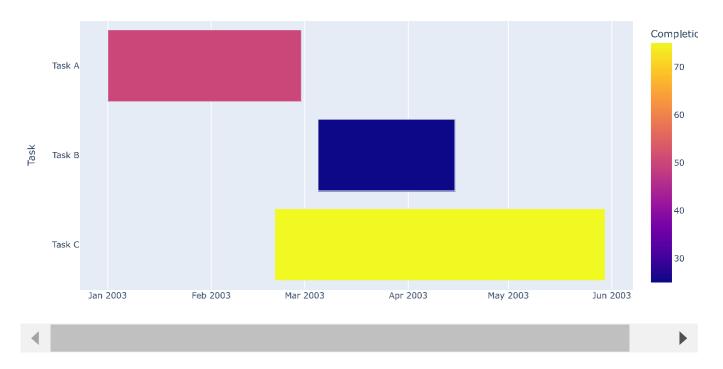
df = pd.DataFrame([
    dict(Task="Task A", Start = "2003-01-01", Finish="2003-02-28", Resource="Vinod"),
    dict(Task="Task B", Start = "2003-03-05", Finish="2003-04-15", Resource="Ravish"),
    dict(Task="Task C", Start = "2003-02-20", Finish="2003-05-30", Resource="Purush"),

])
fig=px.timeline(df, x_start="Start", x_end="Finish", y="Task", color="Resource")
fig.update_yaxes(autorange="reversed")
fig.show()
```



```
import plotly.express as px
import pandas as pd

df = pd.DataFrame([
    dict(Task="Task A", Start = "2003-01-01", Finish="2003-02-28", Completion_pct=50),
    dict(Task="Task B", Start = "2003-03-05", Finish="2003-04-15", Completion_pct=25),
    dict(Task="Task C", Start = "2003-02-20", Finish="2003-05-30", Completion_pct=75),
])
fig=px.timeline(df, x_start="Start", x_end="Finish", y="Task",color="Completion_pct")
fig.update_yaxes(autorange="reversed")
fig.show()
```



#TREE MAP
import pandas as pd
import plotly.express as px
df=pd.read_excel("/content/Superstore.xlsx")
df

Row ID	Order ID	Order Date	Ship Date	Ship Mode	Customer ID	Customer Name	Segment	Country	City	State	Postal Code	1
1	CA- 2016- 152156	2016 - 08- 11 00:00:00	2016-11-11 00:00:00	Second Class	CG-12520	Claire Gute	Consumer	United States	Henderson	Kentucky	42420	
2	CA- 2016- 152156	2016-08- 11 00:00:00	2016-11-11 00:00:00	Second Class	CG-12520	Claire Gute	Consumer	United States	Henderson	Kentucky	42420	
3	CA- 2016- 138688	2016-12- 06 00:00:00	6/16/2016	Second Class	DV-13045	Darrin Van Huff	Corporate	United States	Los Angeles	California	90036	
4	US- 2015- 108966	2015-11- 10 00:00:00	10/18/2015	Standard Class	SO-20335	Sean O'Donnell	Consumer	United States	Fort Lauderdale	Florida	33311	
		•••	***	***	•••	***	***		***	***	***	
9990	CA- 2014- 110422	1/21/2014	1/23/2014	Second Class	TB - 21400	Tom Boeckenhauer	Consumer	United States	Miami	Fl orida	33180	ı
9991	CA- 2017- 121258	2/26/2017	2017-03- 03 00:00:00	Standard Class	DB-13060	Dave Brooks	Consumer	United States	Costa Mesa	California	92627	
9992	CA- 2017- 121258	2/26/2017	2017-03- 03 00:00:00	Standard Class	DB-13060	Dave Brooks	Consumer	United States	Costa Mesa	California	92627	ı
9993	CA- 2017- 121258	2/26/2017	2017-03- 03 00:00:00	Standard Class	DB-13060	Dave Brooks	Consumer	United States	Costa Mesa	California	92627	
9994	CA- 2017- 119914	2017-04- 05 00:00:00	2017-09- 05 00:00:00	Second Class	CC-12220	Chris Cortes	Consumer	United States	Westminster	California	92683	
												4
9995 rc	nwe x 1 cc	lumne										

import plotly.express as px
fig=px.treemap(df,path=['Category','Sub-Category'],values='Sales')
fig.show()

