```
!pip install --upgrade plotly
```

```
Looking in indexes: <a href="https://pypi.org/simple">https://us-python.pkg.dev/colab-wheels/pub</a>. Requirement already satisfied: plotly in /usr/local/lib/python3.7/dist-packages (5.11.0) Requirement already satisfied: tenacity>=6.2.0 in /usr/local/lib/python3.7/dist-packages
```

!pip install jupyter-dash

Looking in indexes: https://us-python.pkg.dev/colab-wheels/pub. Requirement already satisfied: jupyter-dash in /usr/local/lib/python3.7/dist-packages (@ Requirement already satisfied: flask in /usr/local/lib/python3.7/dist-packages (from jur Requirement already satisfied: dash in /usr/local/lib/python3.7/dist-packages (from jupy Requirement already satisfied: requests in /usr/local/lib/python3.7/dist-packages (from Requirement already satisfied: ipykernel in /usr/local/lib/python3.7/dist-packages (from Requirement already satisfied: nest-asyncio in /usr/local/lib/python3.7/dist-packages (+ Requirement already satisfied: retrying in /usr/local/lib/python3.7/dist-packages (from Requirement already satisfied: ipython in /usr/local/lib/python3.7/dist-packages (from Requirement already satisfied: ansi2html in /usr/local/lib/python3.7/dist-packages (from Requirement already satisfied: importlib-metadata in /usr/local/lib/python3.7/dist-packata Requirement already satisfied: dash-core-components==2.0.0 in /usr/local/lib/python3.7/c Requirement already satisfied: plotly>=5.0.0 in /usr/local/lib/python3.7/dist-packages (Requirement already satisfied: dash-html-components==2.0.0 in /usr/local/lib/python3.7/c Requirement already satisfied: dash-table==5.0.0 in /usr/local/lib/python3.7/dist-packas Requirement already satisfied: Werkzeug<2.0,>=0.15 in /usr/local/lib/python3.7/dist-pack Requirement already satisfied: Jinja2<3.0,>=2.10.1 in /usr/local/lib/python3.7/dist-pack Requirement already satisfied: click<8.0,>=5.1 in /usr/local/lib/python3.7/dist-packages Requirement already satisfied: itsdangerous<2.0,>=0.24 in /usr/local/lib/python3.7/dist-Requirement already satisfied: MarkupSafe>=0.23 in /usr/local/lib/python3.7/dist-package Requirement already satisfied: tenacity>=6.2.0 in /usr/local/lib/python3.7/dist-packages Requirement already satisfied: zipp>=0.5 in /usr/local/lib/python3.7/dist-packages (from Requirement already satisfied: typing-extensions>=3.6.4 in /usr/local/lib/python3.7/dist Requirement already satisfied: jupyter-client in /usr/local/lib/python3.7/dist-packages Requirement already satisfied: tornado>=4.2 in /usr/local/lib/python3.7/dist-packages (+ Requirement already satisfied: traitlets>=4.1.0 in /usr/local/lib/python3.7/dist-package Requirement already satisfied: backcall in /usr/local/lib/python3.7/dist-packages (from Requirement already satisfied: pickleshare in /usr/local/lib/python3.7/dist-packages (fr Requirement already satisfied: pygments in /usr/local/lib/python3.7/dist-packages (from Requirement already satisfied: jedi>=0.10 in /usr/local/lib/python3.7/dist-packages (fro Requirement already satisfied: prompt-toolkit<2.1.0,>=2.0.0 in /usr/local/lib/python3.7, Requirement already satisfied: pexpect in /usr/local/lib/python3.7/dist-packages (from i Requirement already satisfied: setuptools>=18.5 in /usr/local/lib/python3.7/dist-package Requirement already satisfied: decorator in /usr/local/lib/python3.7/dist-packages (from Requirement already satisfied: parso<0.9.0,>=0.8.0 in /usr/local/lib/python3.7/dist-pack Requirement already satisfied: wcwidth in /usr/local/lib/python3.7/dist-packages (from p Requirement already satisfied: six>=1.9.0 in /usr/local/lib/python3.7/dist-packages (fro Requirement already satisfied: pyzmq>=13 in /usr/local/lib/python3.7/dist-packages (from Requirement already satisfied: jupyter-core>=4.6.0 in /usr/local/lib/python3.7/dist-pack Requirement already satisfied: python-dateutil>=2.1 in /usr/local/lib/python3.7/dist-pac Requirement already satisfied: ptyprocess>=0.5 in /usr/local/lib/python3.7/dist-packages Requirement already satisfied: idna<3,>=2.5 in /usr/local/lib/python3.7/dist-packages (+ Requirement already satisfied: urllib3!=1.25.0,!=1.25.1,<1.26,>=1.21.1 in /usr/local/lik

Requirement already satisfied: certifi>=2017.4.17 in /usr/local/lib/python3.7/dist-packa Requirement already satisfied: chardet<4,>=3.0.2 in /usr/local/lib/python3.7/dist-packa

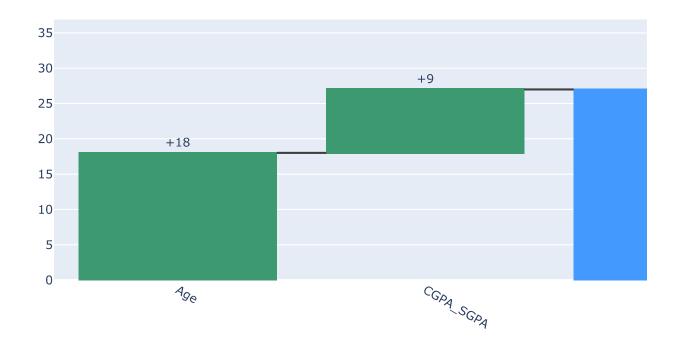
→

!pip install plotly.express

```
Looking in indexes: <a href="https://pypi.org/simple">https://us-python.pkg.dev/colab-wheels/pub</a>
Requirement already satisfied: plotly.express in /usr/local/lib/python3.7/dist-packages
Requirement already satisfied: plotly>=4.1.0 in /usr/local/lib/python3.7/dist-packages (Requirement already satisfied: statsmodels>=0.9.0 in /usr/local/lib/python3.7/dist-packages (from Requirement already satisfied: numpy>=1.11 in /usr/local/lib/python3.7/dist-packages (from Requirement already satisfied: patsy>=0.18 in /usr/local/lib/python3.7/dist-packages (from Requirement already satisfied: python-dateutil>=2.7.3 in /usr/local/lib/python3.7/dist-packages (from Requirement already satisfied: pytz>=2017.3 in /usr/local/lib/python3.7/dist-packages (from Requirement already satisfied: six in /usr/local/lib/python3.7/dist-packages (from Requirement already satisfied: six in /usr/local/lib/python3.7/dist-packages (from patsy satisfied: satisfied: tenacity>=6.2.0 in /usr/local/lib/python3.7/dist-packages
```

```
import plotly.graph objects as go
import plotly.express as px
from jupyter dash import JupyterDash
import dash core components as dcc
import dash html components as html
from dash.dependencies import Input, Output
import pandas as pd
#import plotly and read the csv file(Data Processing)
import pandas as pd
import plotly.express as px
df = pd.read csv('Survey on Student Mental Health1 (1).csv')
df.head()
import plotly.graph objects as go
fig = go.Figure(go.Waterfall(
   name = "20", orientation = "v",
   measure = ["relative", "relative", "total", "relative", "relative"],
   x = ["Age", "CGPA_SGPA ", "What_is_your_screen_time", "How_much_time_are_you_sleeping_ev
   textposition = "outside",
   text = ["+18", "+9", "0", "+5", "+3"],
   y = [18, 9, 8, 5, 3],
    connector = {"line":{"color":"rgb(63, 63, 63)"}},
))
fig.update_layout(
        title = "Survey on Student Mental Health1",
        showlegend = True
fig.show()
```

Survey on Student Mental Health1



```
#import plotly and read the csv file(Data Processing)
import pandas as pd
import plotly.express as px
df = pd.read_csv('Survey on Student Mental Health1 (1).csv')
df.head()

import plotly.express as px
data = dict(
    number=[18, 9, 8, 5, 3],
    stage=["Age", "CGPA_SGPA ", "What_is_your_screen_time", "How_much_time_are_you_sleeping_
fig = px.funnel(data, x='number', y='stage')
fig.show()
```

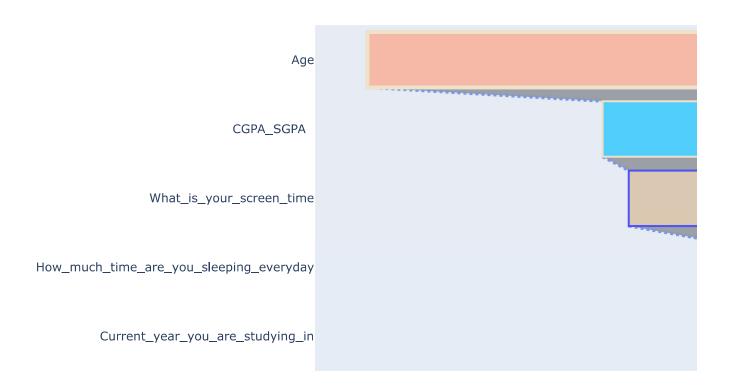


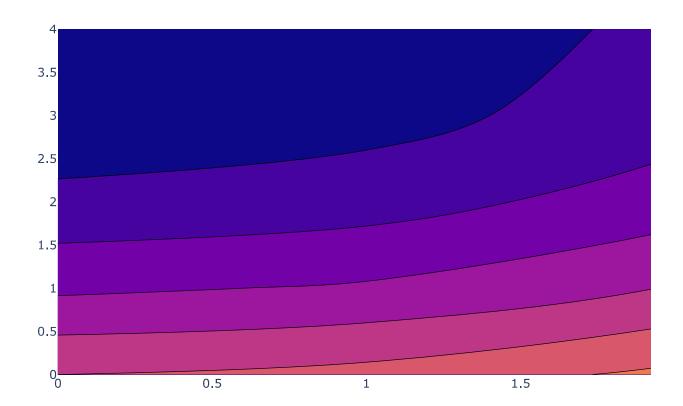
```
import plotly.express as px
import pandas as pd
stages = ["Age", "CGPA_SGPA ", "What_is_your_screen_time", "How_much_time_are_you_sleeping_e
df_mtl = pd.DataFrame(dict(number=[18, 9, 8, 5, 3], stage=stages))
df_mtl['office'] = 'Montreal'
df_toronto = pd.DataFrame(dict(number=[19, 8, 7, 6, 4], stage=stages))
df_toronto['office'] = 'Toronto'
df = pd.concat([df_mtl, df_toronto], axis=0)
fig = px.funnel(df, x='number', y='stage', color='office')
fig.show()
```



from plotly import graph_objects as go

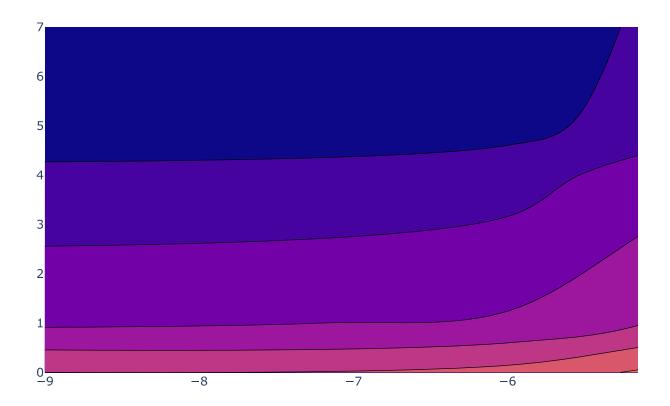
```
fig = go.Figure(go.Funnel(
    y = ["Age", "CGPA_SGPA ", "What_is_your_screen_time", "How_much_time_are_you_sleeping_ev
    x = [18, 9, 8, 5, 3],
    textposition = "inside",
    textinfo = "value+percent initial",
    opacity = 0.65, marker = {"color": ["lightsalmon", "deepskyblue", "tan", "teal", "silver"
    "line": {"width": [4, 2, 2, 3, 1, 1], "color": ["wheat", "wheat", "blue", "wheat", "wheat
    connector = {"line": {"color": "royalblue", "dash": "dot", "width": 3}})
    )
fig.show()
```





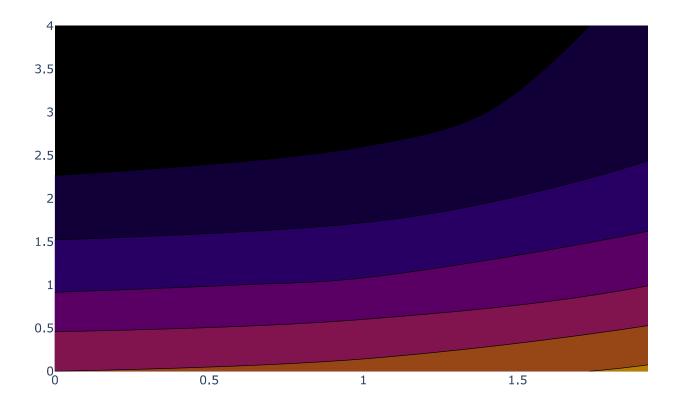
```
import plotly.graph_objects as go
fig = go.Figure(data =
     go.Contour(
     z=[[10, 10.625, 12.5, 15.625, 20],
```

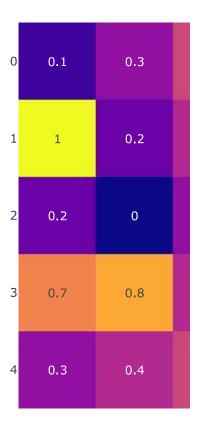
```
[5.625, 6.25, 8.125, 11.25, 15.625],
[2.5, 3.125, 5., 8.125, 12.5],
[0.625, 1.25, 3.125, 6.25, 10.625],
[0, 0.625, 2.5, 5.625, 10]],
x=[-9, -6, -5, -3, -1], # horizontal axis
y=[0, 1, 4, 5, 7] # vertical axis
))
fig.show()
```



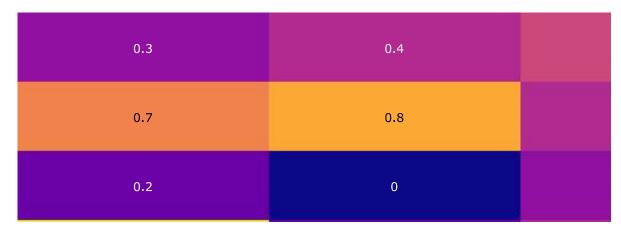
```
import plotly.graph_objects as go

fig = go.Figure(data =
    go.Contour(
        z=[[10, 10.625, 12.5, 15.625, 20],
        [5.625, 6.25, 8.125, 11.25, 15.625],
        [2.5, 3.125, 5., 8.125, 12.5],
        [0.625, 1.25, 3.125, 6.25, 10.625],
        [0, 0.625, 2.5, 5.625, 10]],
        colorscale='Electric',
    ))
fig.show()
```





import plotly.figure_factory as ff



```
import plotly.figure_factory as ff
import numpy as np
np.random.seed(1)

z = np.random.randn(10, 10)
z_text = np.around(z, decimals=2) # Only show rounded value (full value on hover)

fig = ff.create_annotated_heatmap(z, annotation_text=z_text, colorscale='Greys', hoverinfo='z')

# Make text size smaller
for i in range(len(fig.layout.annotations)):
    fig.layout.annotations[i].font.size = 9

fig.show()
```

| 1.2 | 0.19 | -0.38 | -0.64 | 0.42 |
|-------|-------|-------|-------|-------|
| -0.22 | -0.2 | 0.19 | 0.41 | 0.2 |
| -1.44 | -0.5 | 0.16 | 0.88 | 0.32 |
| -0.75 | 1.25 | 0.51 | -0.3 | 0.49 |
| 0.3 | -0.35 | -1.14 | -0.35 | -0.21 |
| -0.19 | -0.89 | -0.75 | 1.69 | 0.05 |
| -0.69 | -0.4 | -0.69 | -0.85 | -0.67 |
| -1.1 | 1.14 | 0.9 | 0.5 | 0.9 |
| 1.46 | -2.06 | -0.32 | -0.38 | 1.13 |
| 1.62 | -0.61 | -0.53 | -1.07 | 0.87 |

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