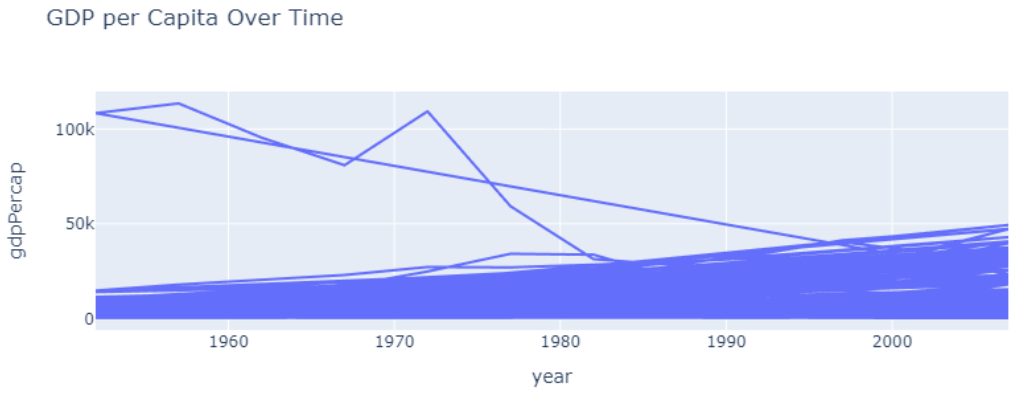
plotly

September 5, 2023

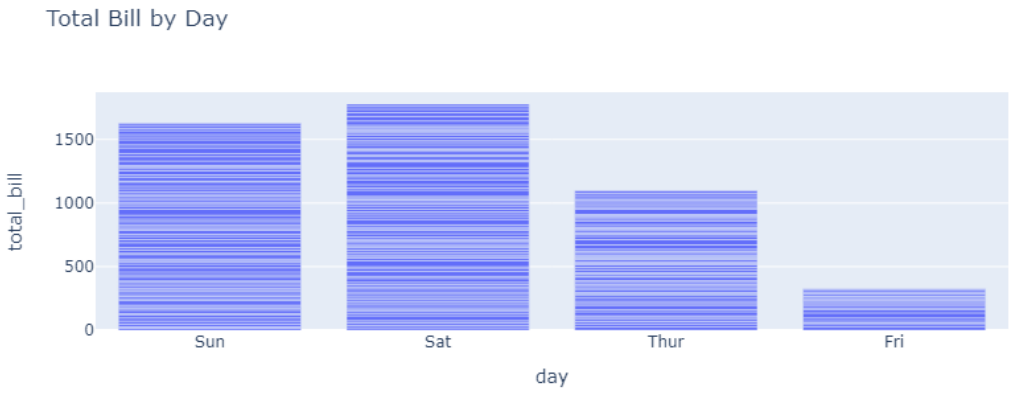
1 Line Chart:

[3]:
```
import plotly.express as px
df = px.data.gapminder()
fig = px.line(df, x="year", y="gdpPercap", title='GDP per Capita Over Time')
fig.show()
```



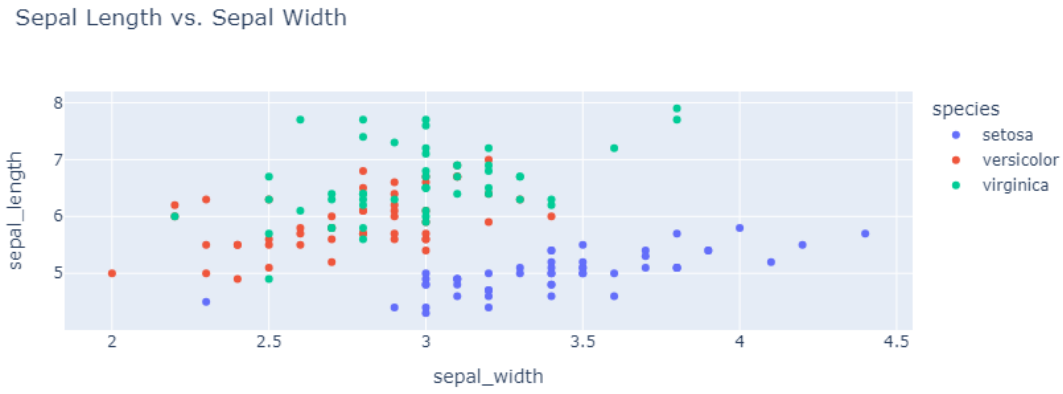
2 Bar Chart:

[4]:
```
import plotly.express as px
df = px.data.tips()
fig = px.bar(df, x="day", y="total_bill", title='Total Bill by Day')
fig.show()
```



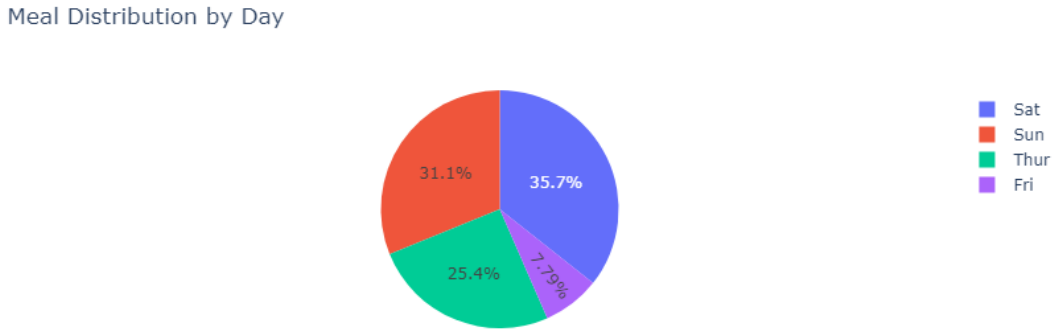
3 Scatter Plot:

[5]:
```
import plotly.express as px
df = px.data.iris()
fig = px.scatter(df, x="sepal_width", y="sepal_length", color="species",␣
 ↪title='Sepal Length vs. Sepal Width')
fig.show()
```



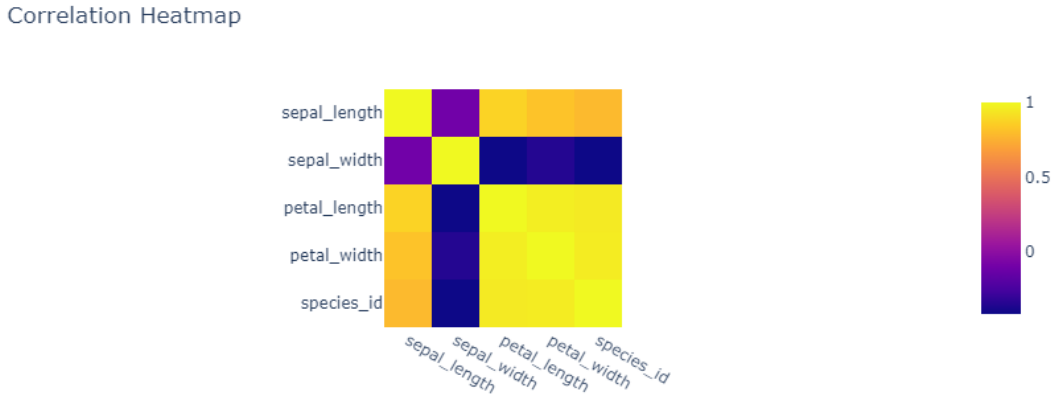
4 Pie Chart:

[6]:
```
import plotly.express as px
df = px.data.tips()
fig = px.pie(df, names='day', title='Meal Distribution by Day')
fig.show()
```



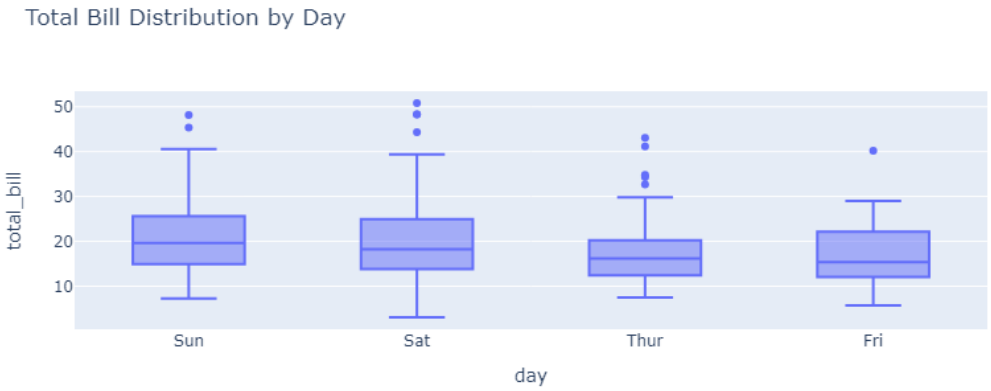
5 Heatmap:

[13]:
```
import plotly.express as px
df = px.data.iris()
fig = px.imshow(df.corr(),  title='Correlation Heatmap')
fig.show()
```



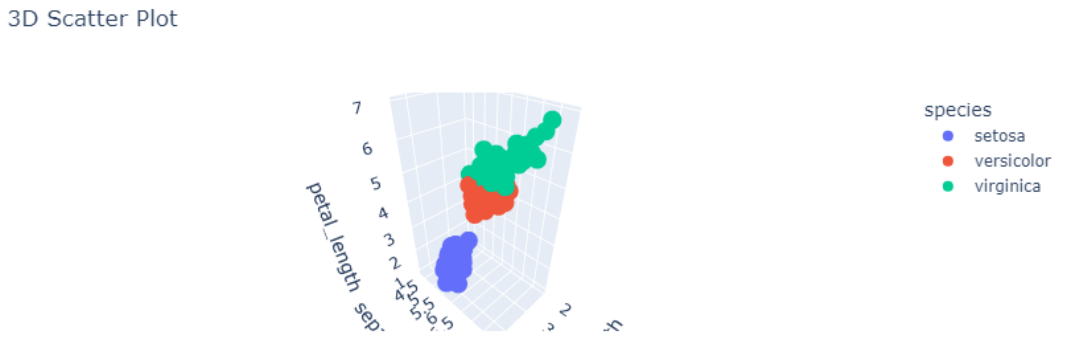
6 Box Plot:

[8]:
```
import plotly.express as px
df = px.data.tips()
fig = px.box(df, x="day", y="total_bill", title='Total Bill Distribution by␣
↪Day')
fig.show()
```



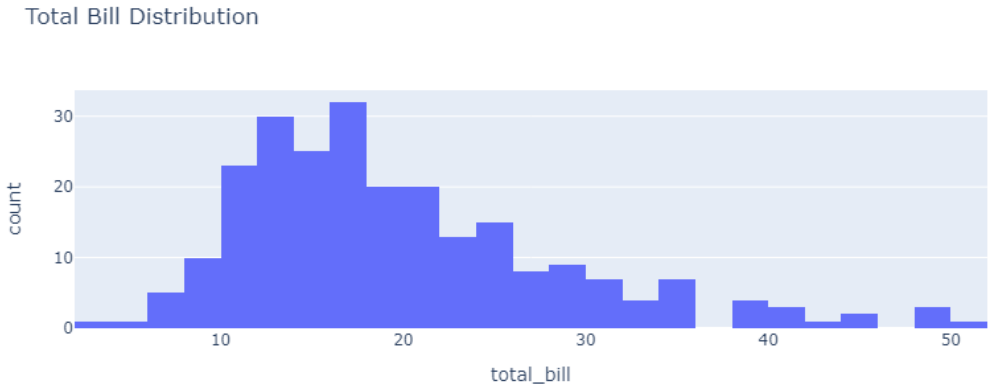
7 3D Scatter Plot:

[9]:
```
import plotly.express as px
df = px.data.iris()
fig = px.scatter_3d(df, x="sepal_width", y="sepal_length", z="petal_length",␣
↪color="species", title='3D Scatter Plot')
fig.show()
```



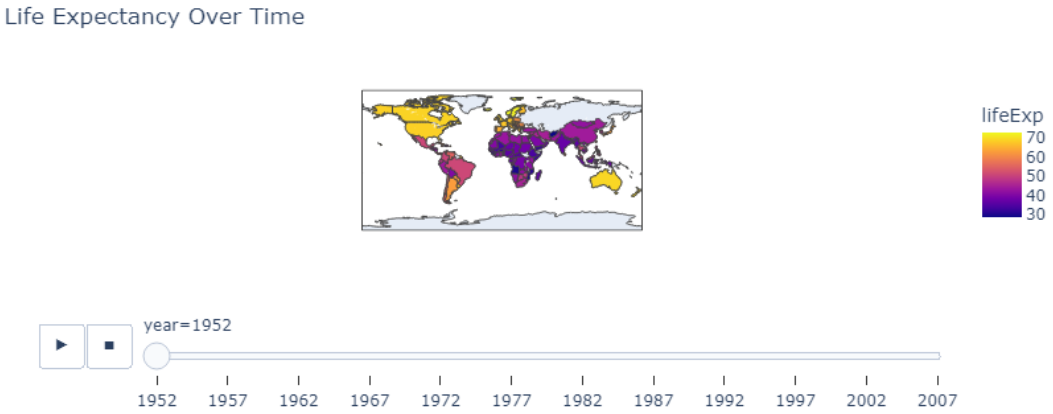
8 Histogram:

[10]:
```
import plotly.express as px
df = px.data.tips()
fig = px.histogram(df, x="total_bill", title='Total Bill Distribution')
fig.show()
```



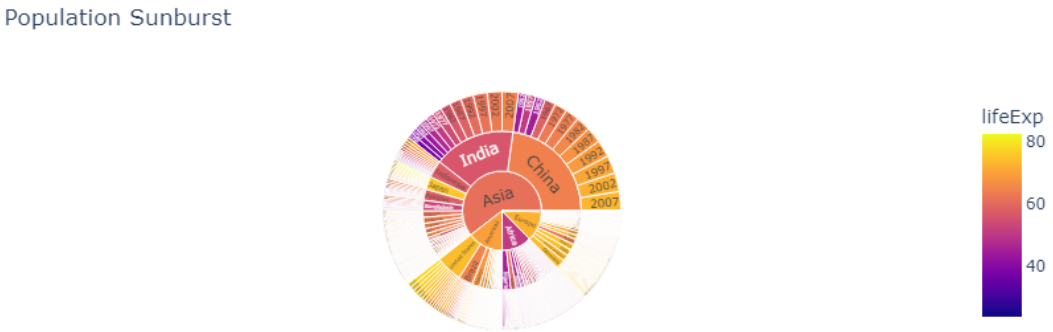
9 Choropleth Map:

[11]:
```
import plotly.express as px
df = px.data.gapminder()
fig = px.choropleth(df, locations="iso_alpha", color="lifeExp",␣
 ↪hover_name="country", animation_frame="year",
                    title='Life Expectancy Over Time')
fig.show()
```



10 Sunburst Chart:

[12]:
```
import plotly.express as px
df = px.data.gapminder()
fig = px.sunburst(df, path=["continent", "country", "year"], values="pop",␣
↪color="lifeExp", title='Population Sunburst')
fig.show()
```



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