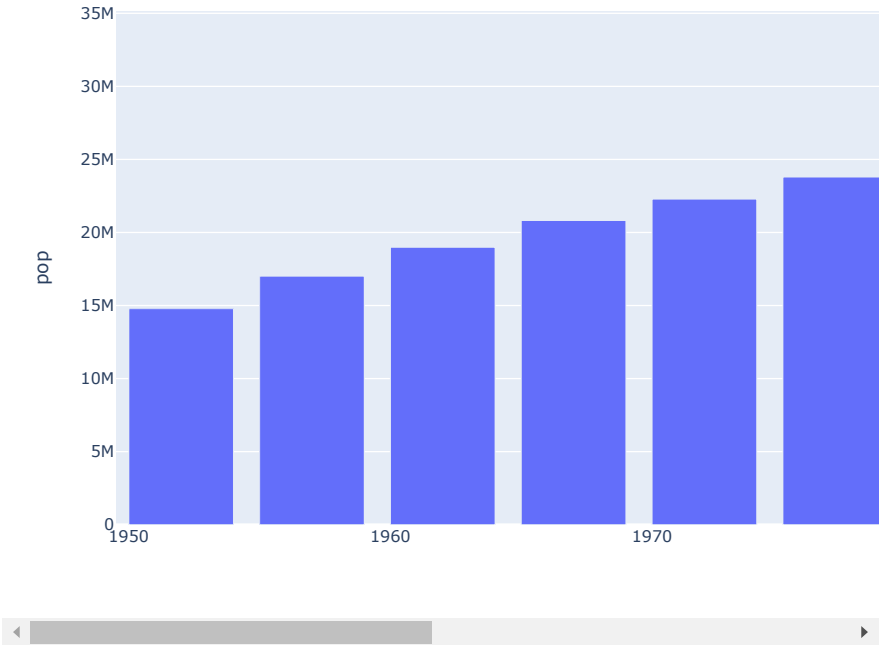
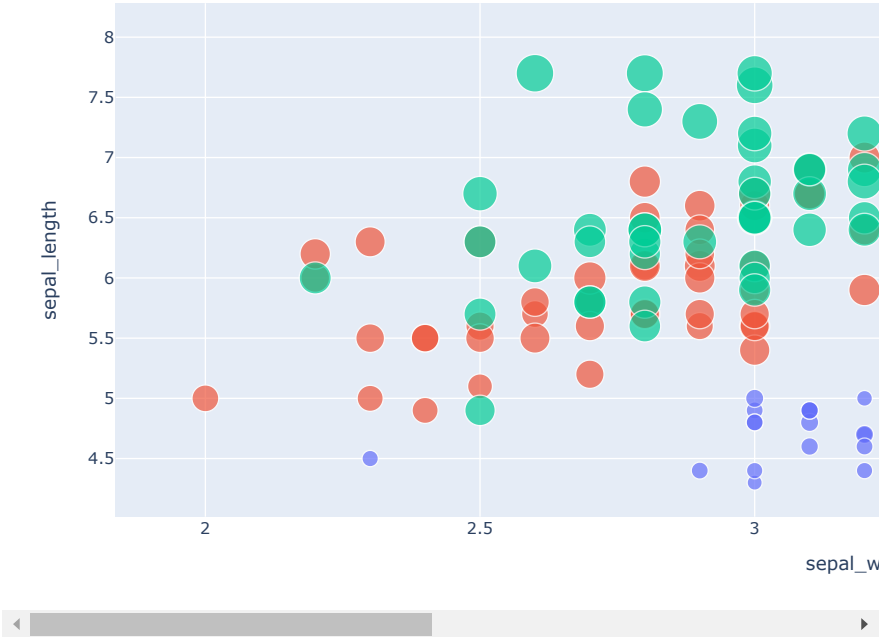
BAR CHART

```
import plotly.express as px
data_canada = px.data.gapminder().query("country == 'Canada'")
fig = px.bar(data_canada, x='year', y='pop')
fig.show()
```




BUBBLE CHART

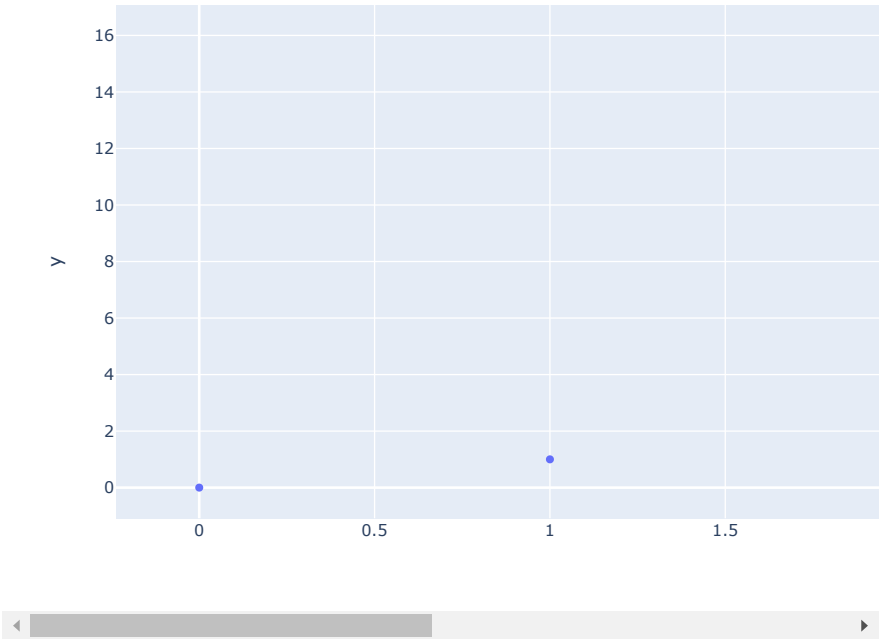
```
import plotly.express as px
df = px.data.iris()
fig = px.scatter(df, x="sepal_width", y="sepal_length", color="species",
                 size='petal_length', hover_data=['petal_width'])
fig.show()
```




SCATTER PLOT

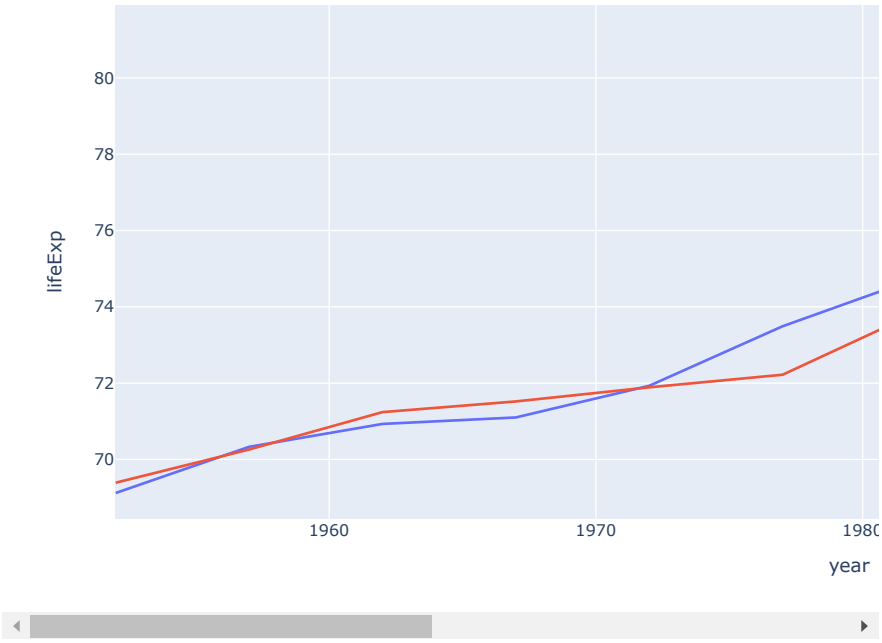
```
# x and y given as array_like objects
import plotly.express as px
```

```
fig = px.scatter(x=[0, 1, 2, 3, 4], y=[0, 1, 4, 9, 16])
fig.show()
```



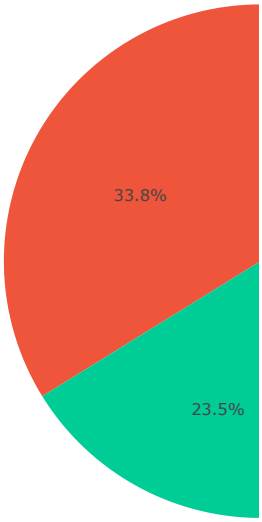

LINE CHART

```
import plotly.express as px

df = px.data.gapminder().query("continent=='Oceania'")
fig = px.line(df, x="year", y="lifeExp", color='country')
fig.show()
```



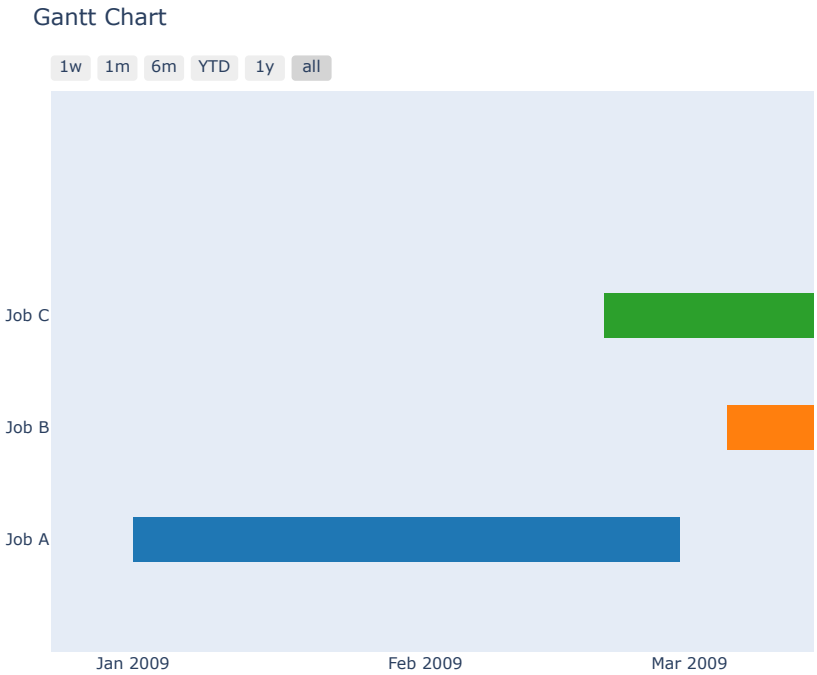

PIE CHART

```
import plotly.express as px
# This dataframe has 244 lines, but 4 distinct values for `day`
df = px.data.tips()
fig = px.pie(df, values='tip', names='day')
fig.show()
```



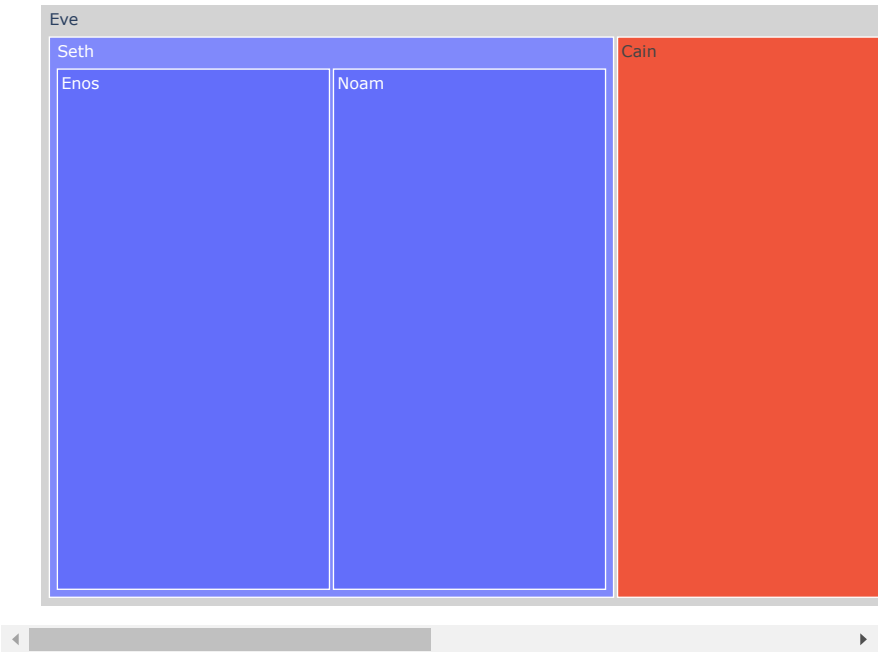

GANTT CHART

```
import plotly.figure_factory as ff

df = [dict(Task="Job A", Start='2009-01-01', Finish='2009-02-28'),
      dict(Task="Job B", Start='2009-03-05', Finish='2009-04-15'),
      dict(Task="Job C", Start='2009-02-20', Finish='2009-05-30')]

fig = ff.create_gantt(df)
fig.show()
```



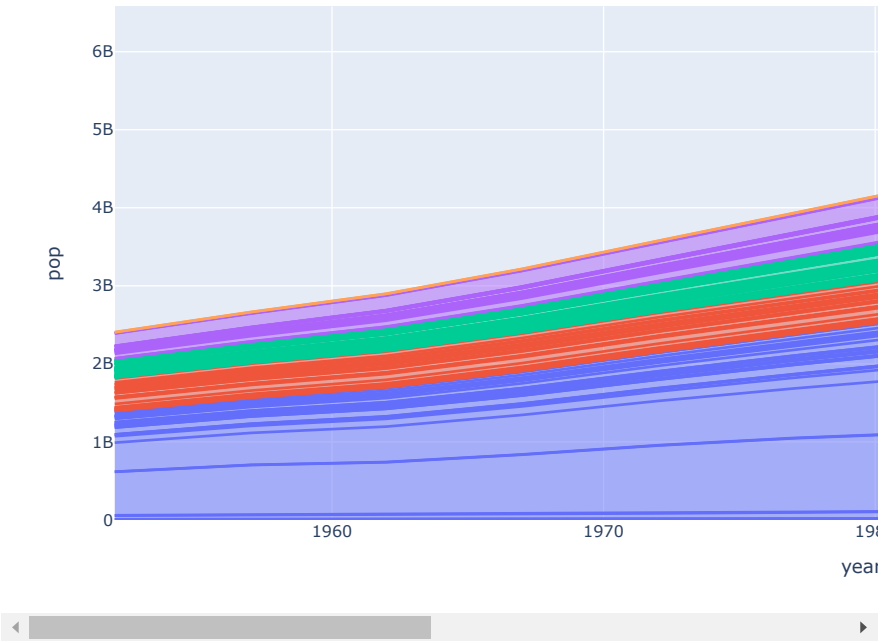

TREEMAP

```
import plotly.express as px
fig = px.treemap(
    names = ["Eve","Cain", "Seth", "Enos", "Noam", "Abel", "Awan", "Enoch", "Azura"],
    parents = ["", "Eve", "Eve", "Seth", "Seth", "Eve", "Eve", "Awan", "Eve"]
)
fig.update_traces(root_color="lightgrey")
fig.update_layout(margin = dict(t=50, l=25, r=25, b=25))
fig.show()
```



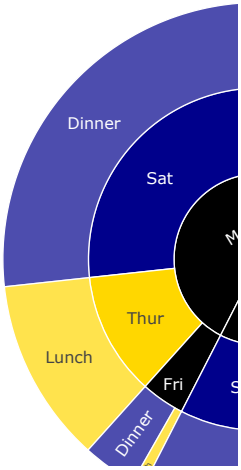

AREA CHART

```
import plotly.express as px
df = px.data.gapminder()
fig = px.area(df, x="year", y="pop", color="continent", line_group="country")
fig.show()
```




SUNBURST CHART

```
import plotly.express as px
df = px.data.tips()
fig = px.sunburst(df, path=['sex', 'day', 'time'], values='total_bill', color='time',
                  color_discrete_map={'(?)':'black', 'Lunch':'gold', 'Dinner':'darkblue'})
fig.show()
```




TABLE

```
import plotly.figure_factory as ff

data_matrix = [['Country', 'Year', 'Population'],
               ['United States', 2000, 282200000],
               ['Canada', 2000, 27790000],
               ['United States', 2005, 295500000],
               ['Canada', 2005, 32310000],
               ['United States', 2010, 309000000],
               ['Canada', 2010, 34000000]]

fig = ff.create_table(data_matrix)
fig.show()
```

| Country | Year | Population |
|---|---|---|
| United States | 2000 | 282200000 |
| Canada | 2000 | 27790000 |
| United States | 2005 | 295500000 |
| Canada | 2005 | 32310000 |
| United States | 2010 | 309000000 |
| Canada | 2010 | 34000000 |