In [1]:

```
!pip install plotly
```

```
Requirement already satisfied: plotly in /usr/local/lib/python3.7/dist-packages (4.4.1)
Requirement already satisfied: six in /usr/local/lib/python3.7/dist-packages (from plotly
) (1.15.0)
Requirement already satisfied: retrying>=1.3.3 in /usr/local/lib/python3.7/dist-packages
(from plotly) (1.3.3)
```

Using Gapminder

In [2]:

```
import plotly.express as px

gapminder = px.data.gapminder()
gapminder.head(15)
```

Out[2]:

	country	continent	year	lifeExp	pop	gdpPercap	iso_alpha	iso_num
0	Afghanistan	Asia	1952	28.801	8425333	779.445314	AFG	4
1	Afghanistan	Asia	1957	30.332	9240934	820.853030	AFG	4
2	Afghanistan	Asia	1962	31.997	10267083	853.100710	AFG	4
3	Afghanistan	Asia	1967	34.020	11537966	836.197138	AFG	4
4	Afghanistan	Asia	1972	36.088	13079460	739.981106	AFG	4
5	Afghanistan	Asia	1977	38.438	14880372	786.113360	AFG	4
6	Afghanistan	Asia	1982	39.854	12881816	978.011439	AFG	4
7	Afghanistan	Asia	1987	40.822	13867957	852.395945	AFG	4
8	Afghanistan	Asia	1992	41.674	16317921	649.341395	AFG	4
9	Afghanistan	Asia	1997	41.763	22227415	635.341351	AFG	4
10	Afghanistan	Asia	2002	42.129	25268405	726.734055	AFG	4
11	Afghanistan	Asia	2007	43.828	31889923	974.580338	AFG	4
12	Albania	Europe	1952	55.230	1282697	1601.056136	ALB	8
13	Albania	Europe	1957	59.280	1476505	1942.284244	ALB	8
14	Albania	Europe	1962	64.820	1728137	2312.888958	ALB	8

Choropleth Visualization

In [3]:

```
import plotly.express as px


gapminder = px.data.gapminder()
gapminder.head(15)

fig = px.choropleth(gapminder,
                    locations ="iso_alpha",
                    color ="lifeExp",
                    hover_name ="country",
                    color_continuous_scale = px.colors.sequential.Plasma,
                    scope ="world",
                    animation_frame ="year")
fig.show()
```

Bar Graph Visualization

In [4]:

```
import plotly.express as px


gapminder = px.data.gapminder()
gapminder.head(15)

fig = px.bar(gapminder,
             x ="continent",
             y ="pop",
             color ='lifeExp',
             animation_frame ='year',
             hover_name ='country',
             range_y =[0, 4000000000])
fig.show()
```

Density Contour Visualization

In [5]:

```
import plotly.express as px


gapminder = px.data.gapminder()
gapminder.head(15)

fig = px.density_contour(gapminder,
                         x ="gdpPercap",
                         y ="lifeExp",
                         color ="continent",
                         marginal_y ="histogram",
                         animation_frame ='year',
                         animation_group ='country',
                         range_y =[25, 100])
fig.show()
```

Scatter Visualization

In [6]:

```
import plotly.express as px
```

```
gapminder = px.data.gapminder()
gapminder.head(15)

fig = px.scatter(
    gapminder,
    x ="gdpPercap",
    y ="lifeExp",
    animation_frame ="year",
    animation_group ="country",
    size ="pop",
    color ="continent",
    hover_name ="country",
    facet_col ="continent",
    size_max = 45,
    range_y =[25, 90]
)
fig.show()
```