

Day 5 Advance Plots

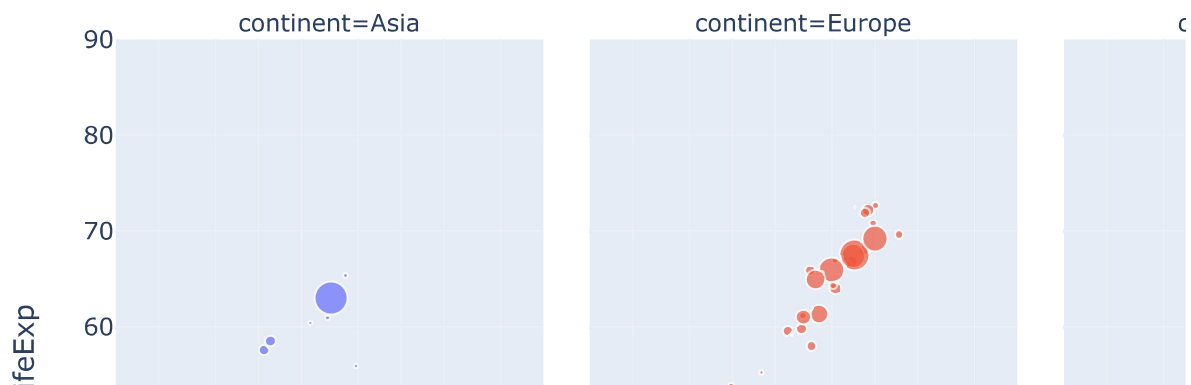
In [1]: `pip install plotly`

Requirement already satisfied: plotly in d:\anacoda\lib\site-packages (5.5.0)
 Requirement already satisfied: tenacity>=6.2.0 in d:\anacoda\lib\site-packages (from plotly) (8.0.1)
 Requirement already satisfied: six in d:\anacoda\lib\site-packages (from plotly) (1.16.0)
 Note: you may need to restart the kernel to use updated packages.

Plotly Expression

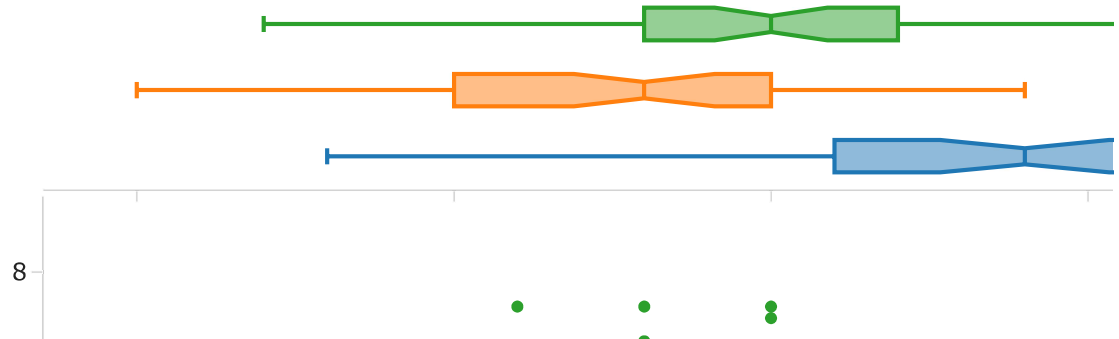
In [1]:

```
import plotly.express as px
df = px.data.gapminder()
fig = px.scatter(df, x="gdpPercap", y="lifeExp", animation_frame="year", animation_group="continent",
                size="pop", color="continent", hover_name="country", facet_col="continent",
                log_x=True, size_max=45, range_x=[100,100000], range_y=[25,90])
fig.show()
```



Trendlines and Templates and Marginal Distribution Plots.

```
In [2]: import plotly.express as px
df = px.data.iris()
fig = px.scatter(df, x="sepal_width", y="sepal_length", color="species", marginal_y="vi
          marginal_x="box", trendline="ols", template="simple_white")
fig.show()
```

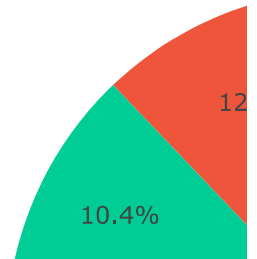


Pie Chart

- Pie chart with plotly express

```
In [3]: import plotly.express as px
df = px.data.gapminder().query("year == 2007").query("continent == 'Europe'")
df.loc[df['pop'] < 2.e6, 'country'] = 'Other countries' # Represent only large countries
fig = px.pie(df, values='pop', names='country', title='Population of European continent')
fig.show()
```

Population of European continent



Sunburst Charts.

```
In [4]: import plotly.express as px

df = px.data.gapminder().query("year == 2007")
fig = px.sunburst(df, path=['continent', 'country'], values='pop',
                  color='lifeExp', hover_data=['iso_alpha'])
fig.show()
```

