ex4

February 24, 2023

0.0.1 Use pie chart, donut chat to viz data of US, Russia, France, Other

```python
[2]: import pandas as pd
     import numpy as np
     import matplotlib.pyplot as plt

     data = pd.read_csv("7_OneCatOneNum.csv")

     data.head (5)
```

```
[2]:           Country    Value
     0    United States   12394.0
     1           Russia    6148.0
     2    Germany (FRG)    1653.0
     3           France    2162.0
     4   United Kingdom    1214.0
```

```python
[3]: data['Value'].fillna(0, inplace=True)
```

```python
[4]: df = data.sort_values('Value', ascending=False)
```

```python
[5]: df.head(5)
```

```
[5]:           Country    Value
     0    United States   12394.0
     1           Russia    6148.0
     3           France    2162.0
     2    Germany (FRG)    1653.0
     9           Israel    1263.0
```

```python
[6]: US = df.loc[df['Country'] == "United States"]['Value'].values[0]
     Russia = df.loc[df['Country'] == "Russia"]['Value'].values[0]
     France = df.loc[df['Country'] == "France"]['Value'].values[0]
     Others = df.iloc[3:].sum()['Value']
```

```python
[7]: Name = ['US', 'Russia', "France", "Others"]
     Value = [US, Russia, France, Others]
```

```
[8]: import plotly.graph_objects as go
     import plotly.express as px

     fig = go.Figure(data=[go.Pie(labels=Name, values=Value,␣
      ↪textinfo='label+percent', insidetextorientation='radial', marker_colors=px.
      ↪colors.sequential.Magenta)])
     fig.show()
```

```
[10]: import plotly.graph_objects as go
      fig = go.Figure(data=[go.Pie(labels=Name, values=Value, hole=.6,␣
       ↪marker_colors=px.colors.sequential.Redor)])
      fig.show()
```