Submission

Put the ipynb file and html file in the github branch you created in the last assignment and submit the link to the commit in brightspace

```
In [21]: from plotly.offline import init_notebook_mode
  import plotly.io as pio
  import plotly.express as px

init_notebook_mode(connected=True)
  pio.renderers.default = "plotly_mimetype+notebook"
```

```
In [22]: #Load data
df = px.data.gapminder()
df.head()
```

Out[22]:		country	continent	year	lifeExp	рор	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

Question 1:

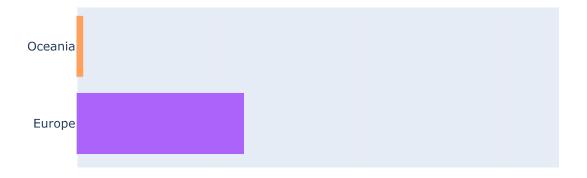
Recreate the barplot below that shows the population of different continents for the year 2007.

Hints:

- Extract the 2007 year data from the dataframe. You have to process the data accordingly
- use plotly bar
- Add different colors for different continents
- Sort the order of the continent for the visualisation. Use axis layout setting
- Add text to each bar that represents the population

```
In [24]: df_2007 = df.query('year==2007')

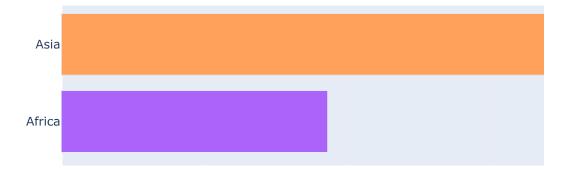
    df_2007_new = df_2007.groupby('continent').sum()
    fig=px.bar(df_2007_new, x='pop', y=df_2007_new.index, color=['Africa', 'Americas',
    fig.show()
```



Question 2:

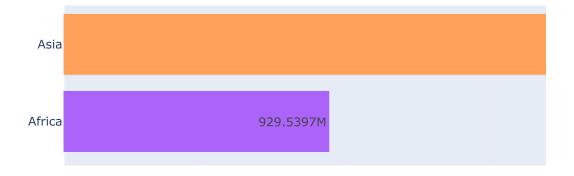
Sort the order of the continent for the visualisation

Hint: Use axis layout setting



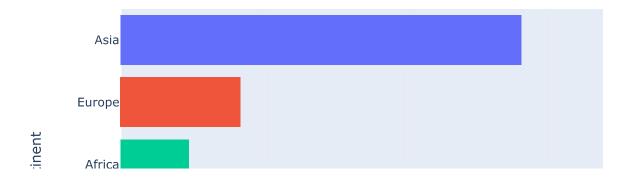
Question 3:

Add text to each bar that represents the population



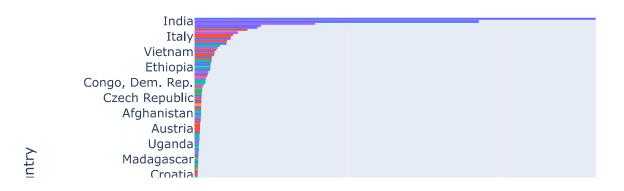
Question 4:

Thus far we looked at data from one year (2007). Lets create an animation to see the population growth of the continents through the years



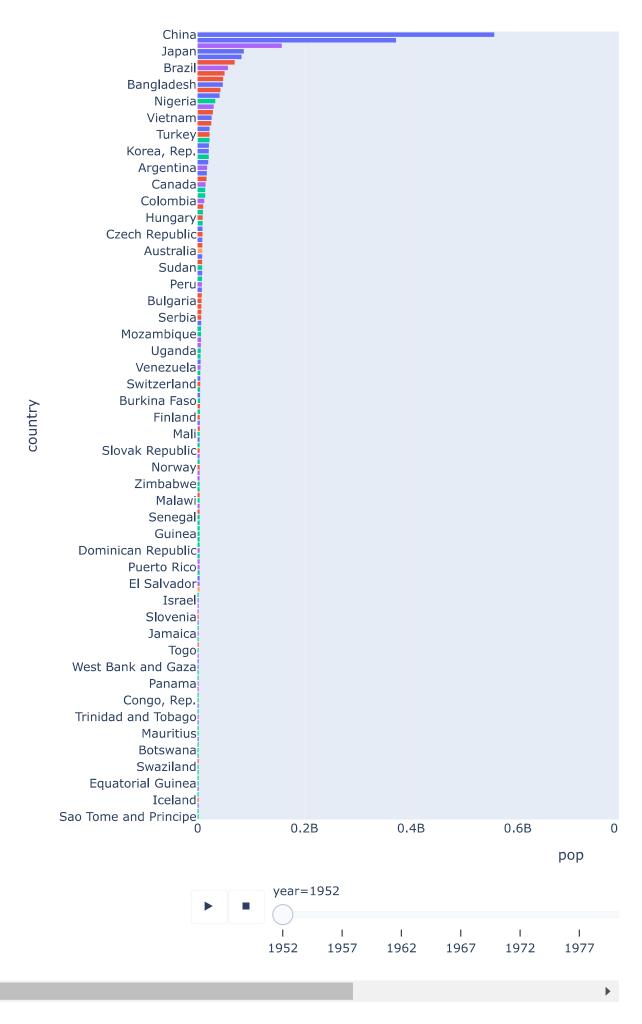
Question 5:

Instead of the continents, lets look at individual countries. Create an animation that shows the population growth of the countries through the years



Question 6:

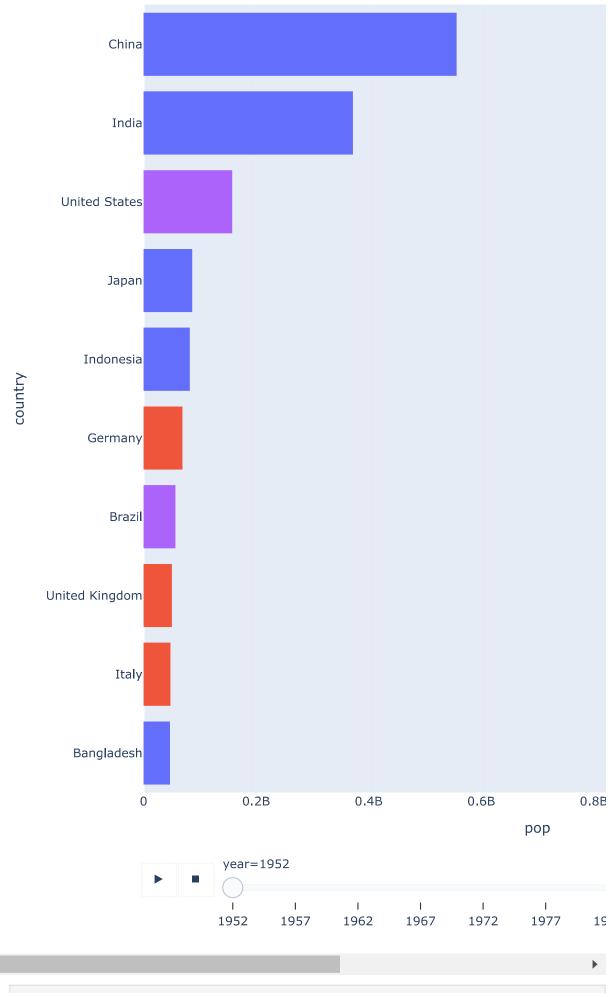
Clean up the country animation. Set the height size of the figure to 1000 to have a better view of the animation



Question 7:

Show only the top 10 countries in the animation

Hint: Use the axis limit to set this.



In []: