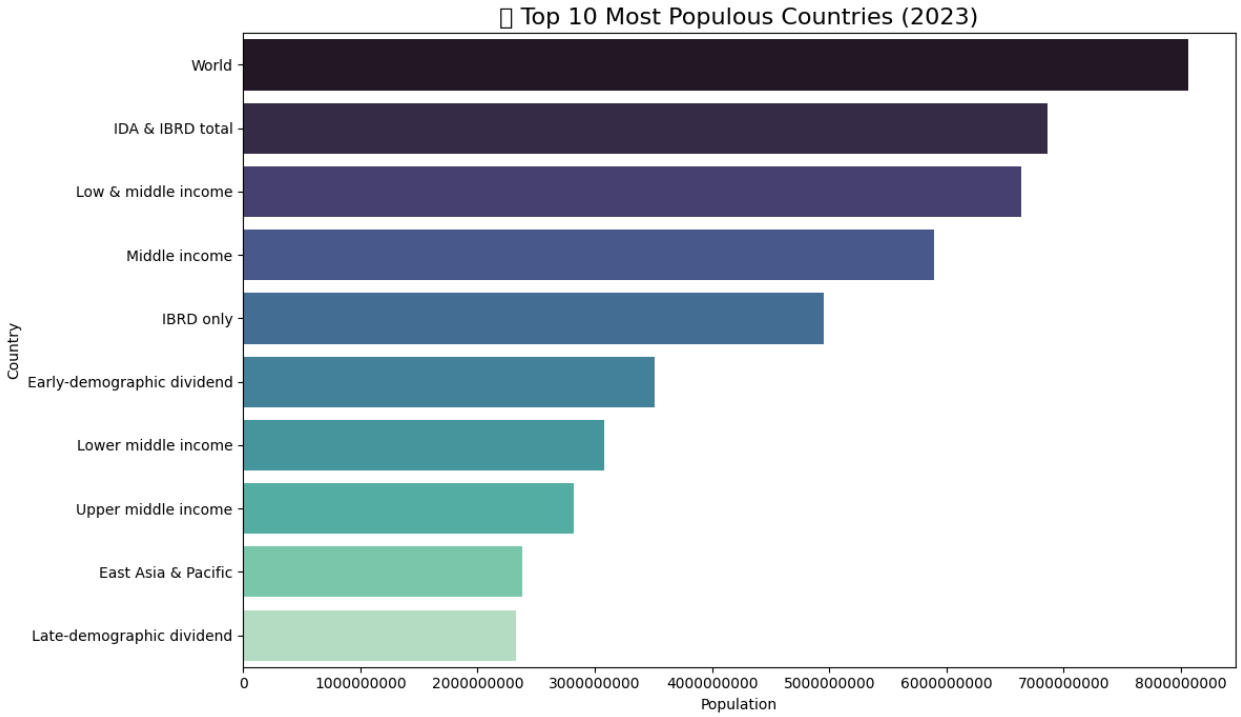
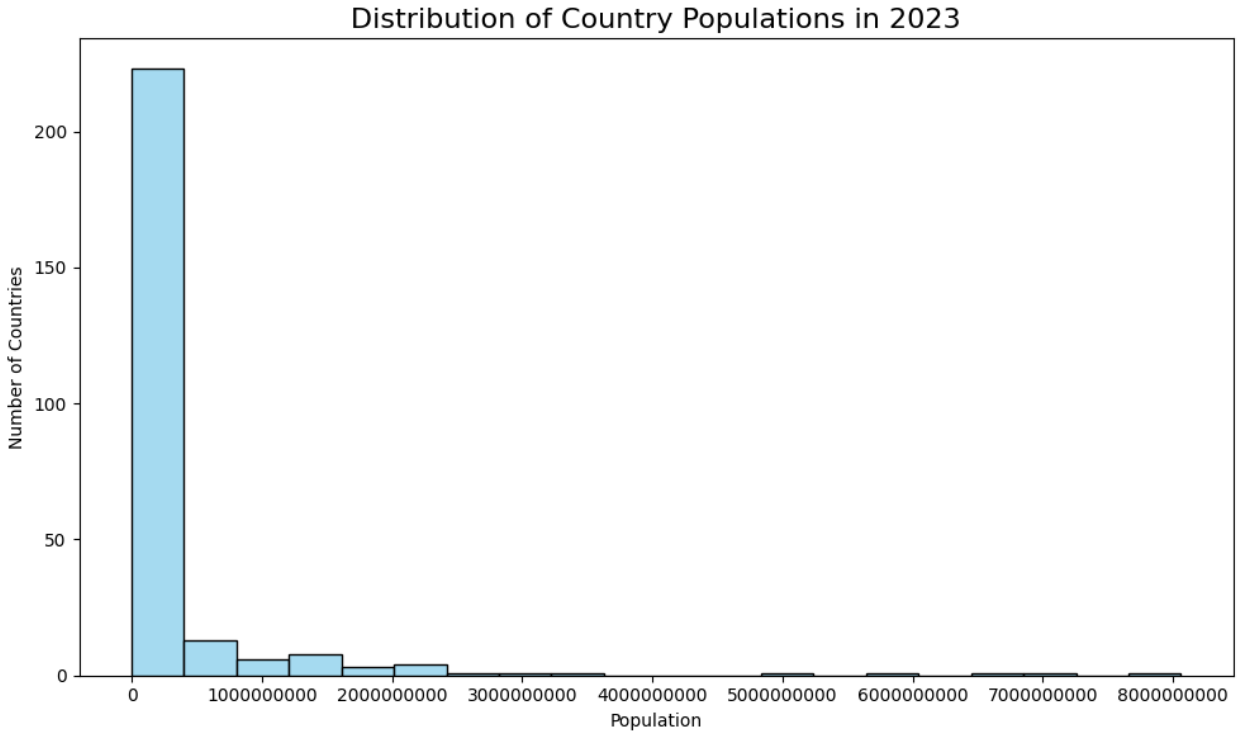
```
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns

# Load the CSV file
df = pd.read_csv("API_SP.POP.TOTL_DS2_en_csv_v2_76034.csv",
skiprows=4)

# Select 2023 population data
df_2023 = df[['Country Name', '2023']].dropna()

# Get top 10 countries by population
top10 = df_2023.sort_values(by='2023', ascending=False).head(10)

# Plotting
plt.figure(figsize=(12, 7))
sns.barplot(x='2023', y='Country Name', data=top10, palette='mako')

plt.title('🌍 Top 10 Most Populous Countries (2023)', fontsize=16)
plt.xlabel('Population')
plt.ylabel('Country')
plt.ticklabel_format(style='plain', axis='x')  # Prevent scientific
notation
plt.tight_layout()

plt.savefig('top10_population_2023.png', dpi=300)
plt.show()
```

```
C:\Users\Nikshat Sharma\AppData\Local\Temp\
ipykernel_9684\80508617.py:16: FutureWarning:

Passing `palette` without assigning `hue` is deprecated and will be
removed in v0.14.0. Assign the `y` variable to `hue` and set
`legend=False` for the same effect.

  sns.barplot(x='2023', y='Country Name', data=top10, palette='mako')
C:\Users\Nikshat Sharma\AppData\Local\Temp\
ipykernel_9684\80508617.py:22: UserWarning: Glyph 127757 (\N{EARTH
GLOBE EUROPE-AFRICA}) missing from font(s) DejaVu Sans.
  plt.tight_layout()
C:\Users\Nikshat Sharma\AppData\Local\Temp\
ipykernel_9684\80508617.py:24: UserWarning: Glyph 127757 (\N{EARTH
GLOBE EUROPE-AFRICA}) missing from font(s) DejaVu Sans.
  plt.savefig('top10_population_2023.png', dpi=300)
C:\Users\Nikshat Sharma\AppData\Roaming\Python\Python312\site-
packages\IPython\core\pylabtools.py:170: UserWarning: Glyph 127757 (\
N{EARTH GLOBE EUROPE-AFRICA}) missing from font(s) DejaVu Sans.
  fig.canvas.print_figure(bytes_io, **kw)
```




```
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns

# Load CSV (update the file path as per your system)
df = pd.read_csv("API_SP.POP.TOTL_DS2_en_csv_v2_76034.csv",
skiprows=4)

# Clean and select 2023 population
df_2023 = df[['Country Name', '2023']].dropna()

# Plot histogram
plt.figure(figsize=(10, 6))
sns.histplot(df_2023['2023'], bins=20, kde=False, color='skyblue')

plt.title('Distribution of Country Populations in 2023', fontsize=16)
plt.xlabel('Population')
plt.ylabel('Number of Countries')
plt.ticklabel_format(style='plain', axis='x')  # Disable scientific
notation on x-axis
plt.tight_layout()

plt.savefig("population_histogram_2022.png", dpi=300)
plt.show()
```


Distribution of Country Populations in 2023
Number of Countries
Population
0
50
100
150
200
0
1000000000
2000000000
3000000000
4000000000
5000000000
6000000000
7000000000
8000000000