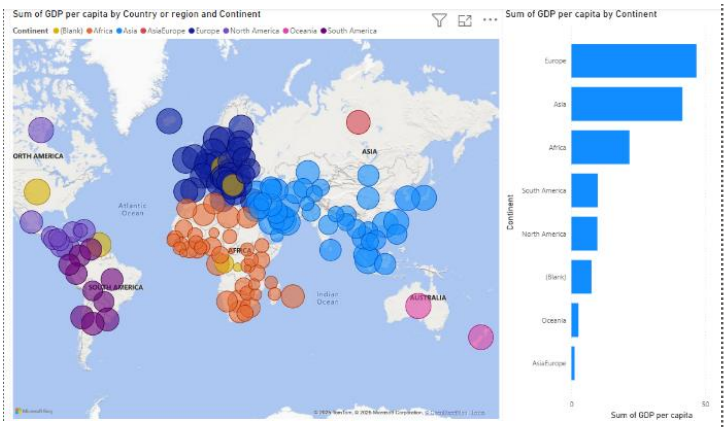
Date : 6-11-2025

WEB SCRAPING



Country or region	Country	Continent
	American Samoa	Oceania
	Andorra	Europe
	Angola	Africa
	Anguilla	North America
	Antigua and Barbuda	North America
	Aruba	North America
	Bahamas	North America
	Barbados	North America
	Belize	North America
	Bermuda	North America
	British Virgin Islands	North America
	Brunei	Asia
	Cape Verde	Africa
	Cayman Islands	North America
	Cook Islands	Oceania
	Cuba	North America
	Curacao	North America
	Czechia	Europe
	Djibouti	Africa
	Dominica	North America
	DR Congo	Africa
	Equatorial Guinea	Africa
	Eritrea	Africa
	Falkland Islands	South America
	Faroe Islands	Europe
	Fiji	Oceania
	French Guiana	South America
	French Polynesia	Oceania
	Gibraltar	Europe
	Greenland	North America
	Grenada	North America
	Guadeloupe	North America

Uploading Both Tables and Merging

1. Uploading WHR (World Happiness/GDP) Table

- Go to **Home → Get Data → Web**
- Paste the WHR dataset link → **Load**
- Click **Transform Data** to open the **Power Query Editor**
- Keep important columns (Country, GDP per Capita, etc.)
- Set **Country** column data type to **Text**

2. Uploading CC (Country–Continent) Mapping Table

- Again go to **Get Data → Web**
- Paste the Country–Continent table link → **Load**
- Open the table in **Transform Data**
- Keep only:
  - **Country**
  - **Continent**
- Apply **Trim** or **Clean** to remove extra spaces
- Ensure **Country** is Text type

3. Merging Both Tables (Done in Transform Data)

- In **Power Query** select **WHR** table
- Go to **Home → Merge Queries**
- Select:
  - **Primary Table:** WHR
  - **Lookup Table:** CC
  - Matching Column: **Country**
- **Join type:** *Left Outer (all from WHR, matching from CC)*

1) Map - Sum of GDP per capita by Country and Continent

Short Insights

- The **largest bubbles** are concentrated in **Europe** and parts of **Asia**, indicating these regions have the **highest GDP per capita totals** in the dataset.
- **Europe** shows the **heaviest concentration** of high-value countries (many large bubbles close together).
- **Oceania** (Australia/New Zealand) and some **North America** points show high GDP per capita but fewer countries.
- **Africa** shows many smaller bubbles — many countries have **lower GDP per capita** values.
- The map visually highlights **regional disparities** in GDP per capita and helps locate high and low performing countries geographically.

Steps to reproduce (Map visual)

1. **Data**: Ensure the merged table (WHR with Continent column) is loaded to Power BI.
2. **Create Map Visual**: Insert a **Filled Map / Bubble Map** (Map visual using Bing).
3. **Fields**:
    - **Location**: Country (use the country/region field, set Data Category = Country/Region).
    - **Size**: `GDP per capita` (or Sum/Aggregation depending on your intent).
    - **Legend / Color**: `Continent`.
    - **Tooltip**: add `Country`, `GDP per capita`, `Continent`, and any other measures (e.g., Year).
4. **Formatting**:
    - Turn on **Data labels** (if map supports) or rely on tooltip for details.
    - Set **Bubble size range** appropriately so differences are visible but not overlapping excessively.
    - Choose **distinct colors** for each continent in Data Colors.
    - Enable **map controls** (zoom, tilt) if needed.
5. **Validate**: Zoom to regions to inspect overlapping bubbles; verify country placements (fix any mis-geocoded country names).
6. **Tip**: If many overlapping points in Europe, use **Play Axis** or small multiples by continent for clearer view.

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2)Bar Chart -Sum of GDP per capita by Continent

Short Insights

- **Europe** has the **highest aggregate GDP per capita** in the dataset (largest bar).
- **Asia** is the **next highest**, followed by **Africa** and **South America** (smaller bars).

- **Oceania** and any `(Blank)` or misc categories are small, indicating few countries or missing continent assignments.
- The bar chart makes it easy to compare **continent-level totals** and confirms the map view's regional patterns.

Steps to reproduce (Bar chart)

1. **Create Clustered Bar Chart** (or simple bar).
2. **Fields**:
    - **Axis / Category**: `Continent`.
    - **Value**: `GDP per capita` → set to **Sum** (or Average if you want per-country average).
3. **Formatting**:
    - Turn on **Data Labels** (show absolute numbers and/or percentage).
    - Sort bars descending by value.
    - Exclude or reassign `(Blank)` if it indicates unmatched countries (clean source data instead).
    - Color bars using a single palette or by continent color to match the map.
4. **Validation**: Cross-check totals vs map tooltips for consistency.