

# World Development Indicators (2022) Analysis

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## Introduction

The data used in this analysis comes from the World Bank World Development Indicators (WDI) database (Bank 2025). We explore cross-country development patterns in 2022 using economic and health indicators.

## Load Data

(217, 14)

	country	inflation_rate	exports_gdp_share	gdp_growth_rate	gdp_per_capita	adult_literacy
0	Afghanistan	13.712102	18.380042	-6.240172	357.261153	NaN
1	Albania	6.725203	37.197076	4.826801	7756.961887	NaN
2	Algeria	9.265516	30.791556	3.600000	4960.303343	NaN
3	American Samoa	NaN	46.957520	1.735016	18017.458938	NaN
4	Andorra	NaN	NaN	9.564612	42414.047986	NaN

## Exploratory Data Analysis

### GDP per Capita

```
count    209.000000
mean     21142.747417
std      31040.300784
min       302.992505
25%      2899.160475
```

```
50%      7655.594210
75%      28360.304147
max       226052.001905
Name: gdp_per_capita, dtype: float64
```

GDP per capita varies substantially across countries in 2022, indicating large global income differences.

### Life Expectancy

```
count      217.000000
mean        73.108020
std         7.942539
min         18.818000
25%         67.788000
50%         74.160976
75%         78.531000
max         85.746000
Name: life_expectancy, dtype: float64
```

Life expectancy shows less variation than income but still reflects differences in development levels.

### Inflation Rate

```
count      178.000000
mean        12.645329
std         19.752353
min         -6.687321
25%          5.361652
50%          7.985187
75%         12.259876
max         171.205491
Name: inflation_rate, dtype: float64
```

Inflation rates vary widely across countries, with some experiencing very high inflation.

## Visualisations

### GDP per Capita vs Life Expectancy

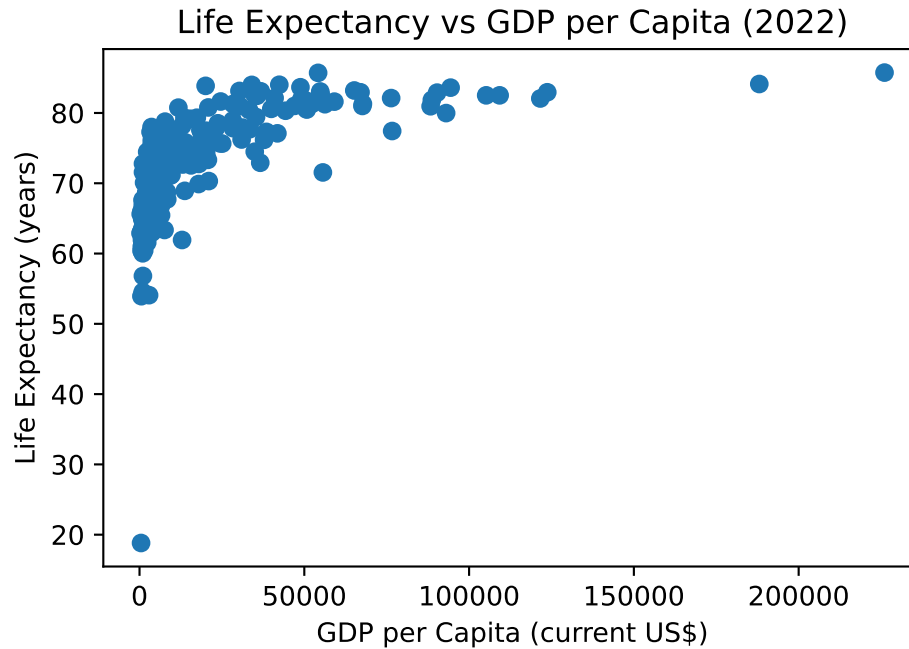


Figure 1: Life Expectancy vs GDP per Capita (2022)

As shown in Figure 1, countries with higher GDP per capita generally tend to have higher life expectancy.

### Top 10 Countries by GDP per Capita

Figure Figure 2 shows the highest income countries in the dataset.

## Summary Table

Table 2

	gdp_per_capita	life_expectancy	inflation_rate
count	209.000000	217.000000	178.000000
mean	21142.747417	73.108020	12.645329

Table 2

	gdp_per_capita	life_expectancy	inflation_rate
std	31040.300784	7.942539	19.752353
min	302.992505	18.818000	-6.687321
25%	2899.160475	67.788000	5.361652
50%	7655.594210	74.160976	7.985187
75%	28360.304147	78.531000	12.259876
max	226052.001905	85.746000	171.205491

Table Table 2 presents key summary statistics for selected indicators.

## Discussion

Higher GDP per capita is generally associated with higher life expectancy, although there remains considerable variation across countries. Inflation levels vary significantly and may reflect macroeconomic instability in some regions. These patterns align with widely documented global development trends (OECD 2024).

## References

- Bank, World. 2025. “World Development Indicators.” <https://databank.worldbank.org/source/world-development-indicators>.
- OECD. 2024. “Inflation and Economic Growth Statistics.” <https://www.oecd.org/economy/inflation>.

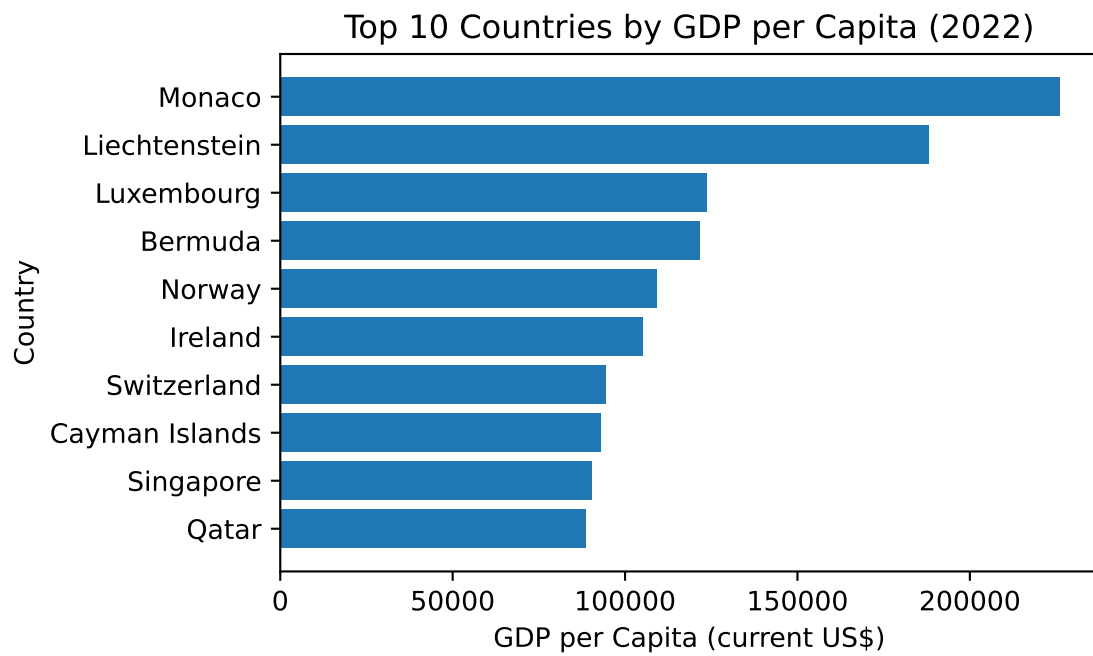


Figure 2: Top 10 Countries by GDP per Capita (2022)