

GDP per Capita and Life Expectancy Analysis (2020)

Data Analysis Report

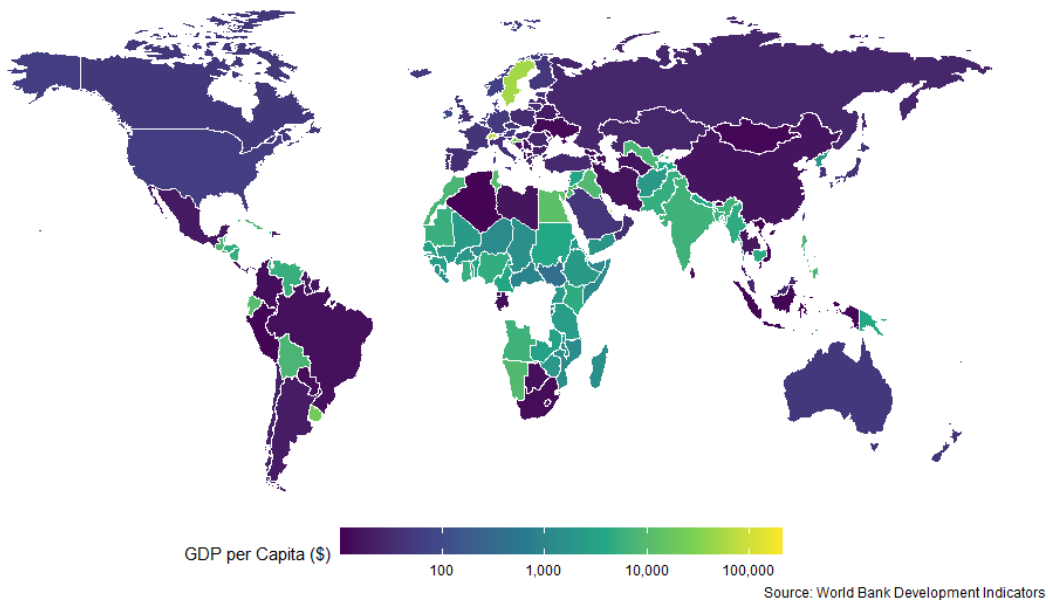
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Date: 28th August 2025

1. A world map visualization of GDP per capita in 2020

GDP per Capita by Country (2020)

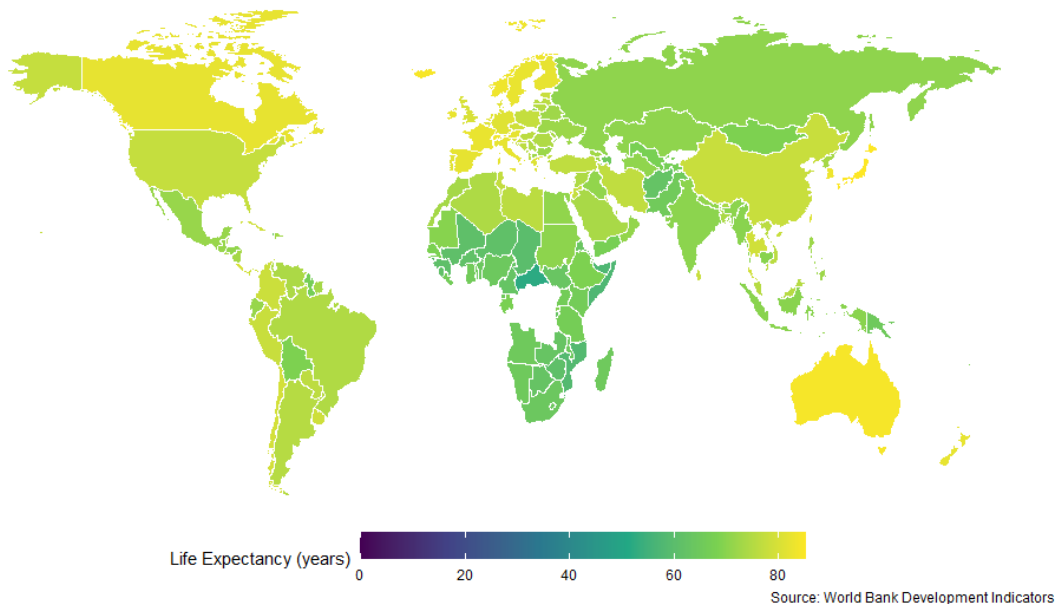
Data shown on logarithmic scale for better visualization



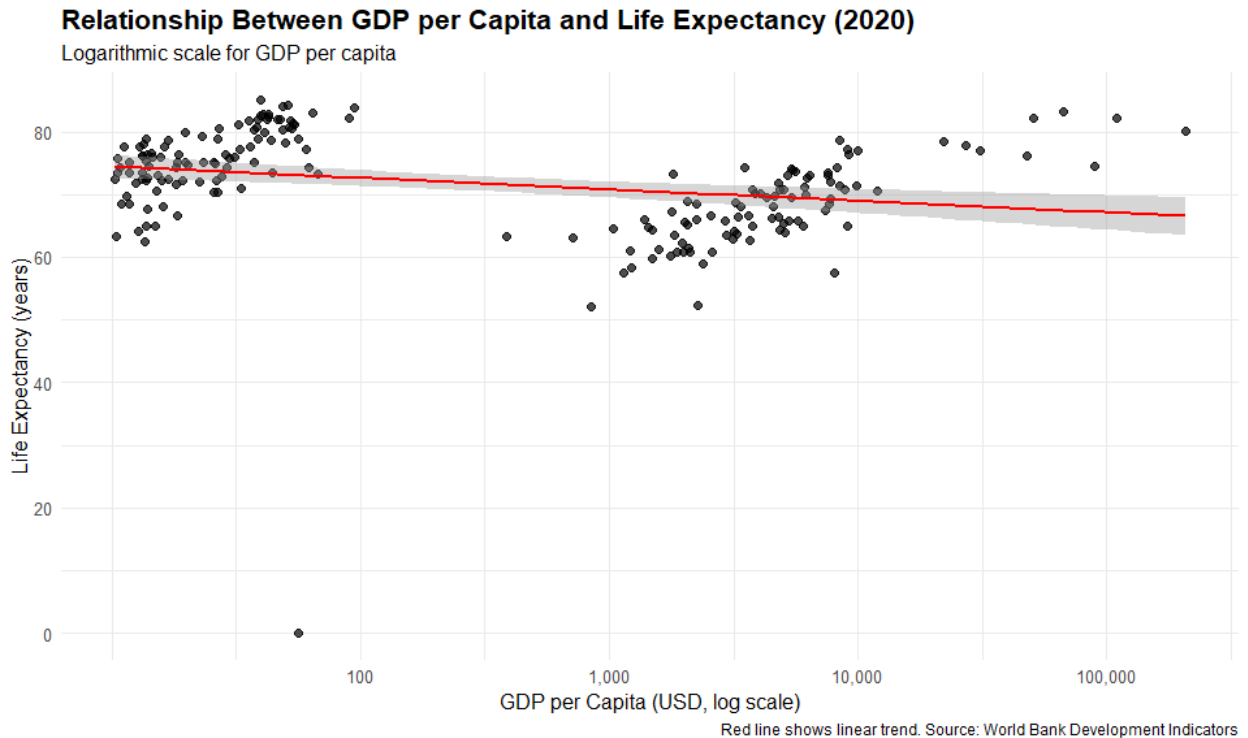
2. A world map visualization of Life Expectancy in 2020

Life Expectancy by Country (2020)

Higher values indicate longer life expectancy



3. A scatterplot showing the relationship between GDP per capita and life Expectancy in 2020



s4. Statistical Analysis

- **Pearson's correlation coefficient (r): 0.129**
- **Interpretation:** Very weak positive correlation

Interpretation

The scatterplot shows a **very weak positive relationship** between GDP per capita and life expectancy in 2020. The Pearson correlation coefficient of 0.129 confirms this observation, indicating that while countries with higher GDP per capita tend to have slightly longer life expectancies, the association is minimal. This suggests that economic prosperity alone is not a strong predictor of population health outcomes, and that other factors—such as healthcare systems, education, social policies, and cultural influences—likely play a more significant role.

5. Reflection

As a beginner in R, using the AI agent mode was a real game-changer. Without this support, it would have taken me weeks to create these kinds of maps. However, I am still uncertain about how much I can fully trust the AI-generated code and results.

With my limited knowledge, manually checking the analysis would be very time-consuming. I am still looking for effective strategies to balance learning R , verifying the results, and relying on AI assistance. Any suggestions from the trainers? Thank you