



World Happiness - Report

by Khoa Ho



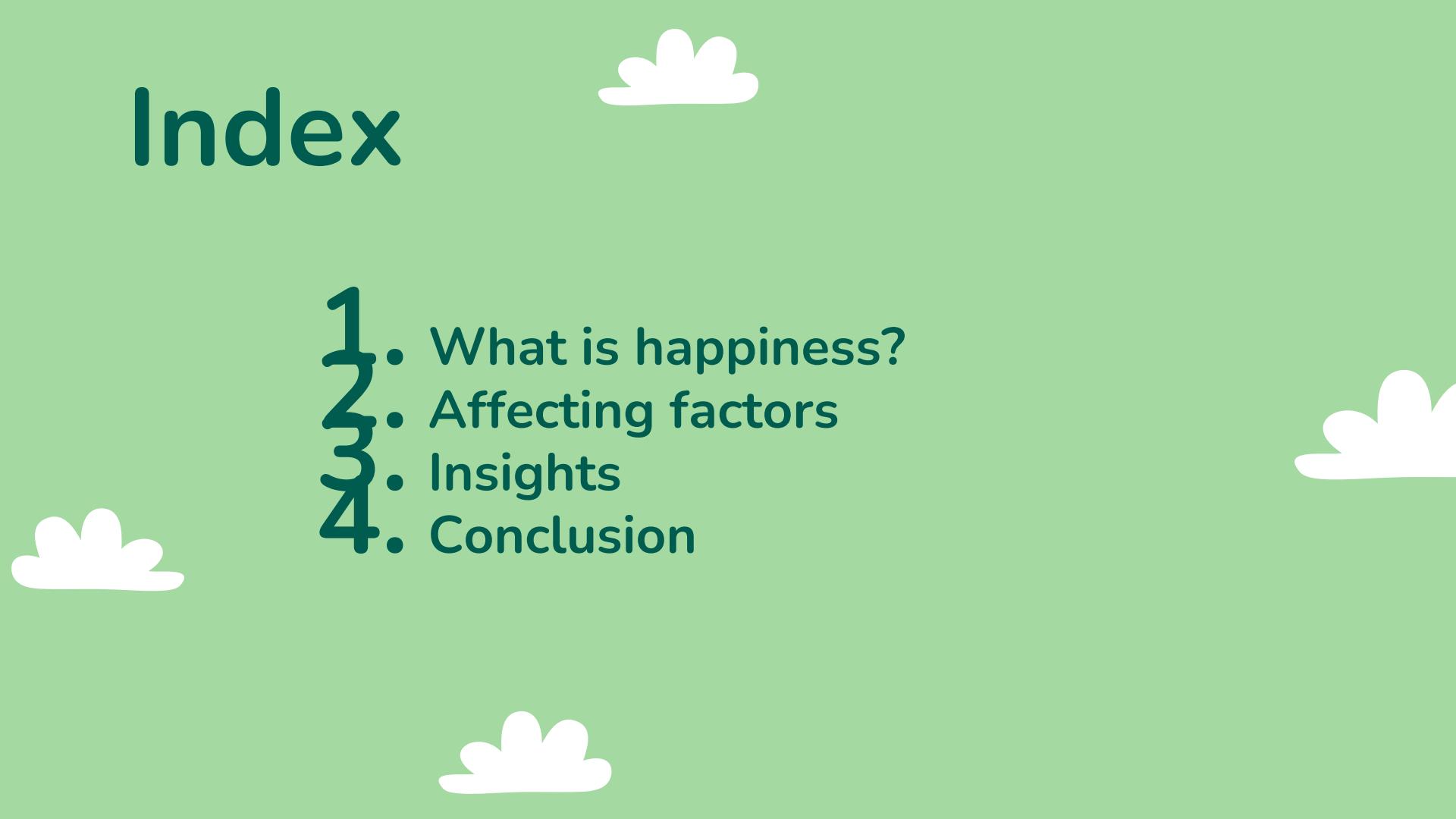


Big question:

How can we improve the
Happiness Score of the
countries?



Index

- 
1. What is happiness?
 2. Affecting factors
 3. Insights
 4. Conclusion

1. Definition



Happiness is a positive and pleasant emotion, ranging from contentment to intense joy.



2. Affecting factors

World Happiness Report, 2005-Present

Data Card Code (6) Discussion (4)

▲ 51

New Notebook

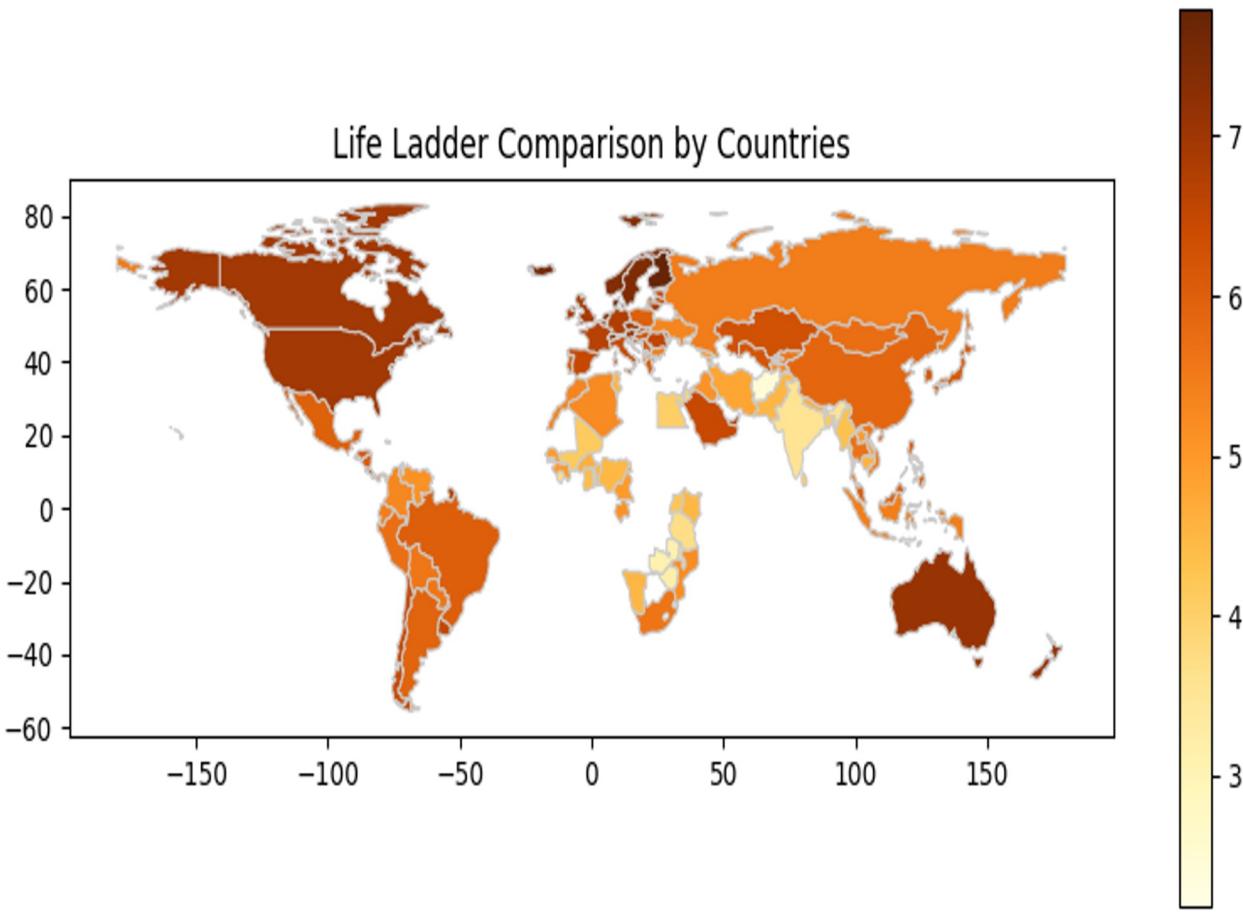
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| | Country Name | Regional Indicator | Year | Life Ladder | Log GDP Per Capita | Social Support | Healthy Life Expectancy At Birth | Freedom To Make Life Choices | Generosity | Perceptions Of Corruption | Positive Affect | Negative Affect | Confidence In National Government |
|------|--------------------|-----------------------------|------|-------------|--------------------|----------------|----------------------------------|------------------------------|------------|---------------------------|-----------------|-----------------|-----------------------------------|
| 1487 | Pakistan | South Asia | 2007 | 5.671461 | 8.314321 | 0.478887 | 53.720001 | 0.395642 | 0.084207 | 0.793795 | 0.583408 | 0.310367 | 0.443334 |
| 1605 | Romania | Central and Eastern Europe | 2009 | 5.367565 | 9.958084 | 0.812450 | 65.220001 | 0.605828 | -0.200457 | 0.966795 | 0.544521 | 0.270051 | 0.231965 |
| 535 | Dominican Republic | Latin America and Caribbean | 2015 | 5.061862 | 9.625457 | 0.893198 | 63.200001 | 0.856025 | -0.067847 | 0.755288 | 0.695385 | 0.295253 | 0.447034 |
| 1530 | Paraguay | Latin America and Caribbean | 2019 | 5.652626 | 9.518539 | 0.892487 | 65.800003 | 0.876053 | 0.019862 | 0.881786 | 0.790479 | 0.275187 | 0.212080 |
| 275 | Burkina Faso | Sub-Saharan Africa | 2008 | 3.846439 | 7.364132 | 0.726651 | 50.320000 | 0.612064 | -0.099447 | 0.887124 | 0.538072 | 0.303892 | 0.462705 |

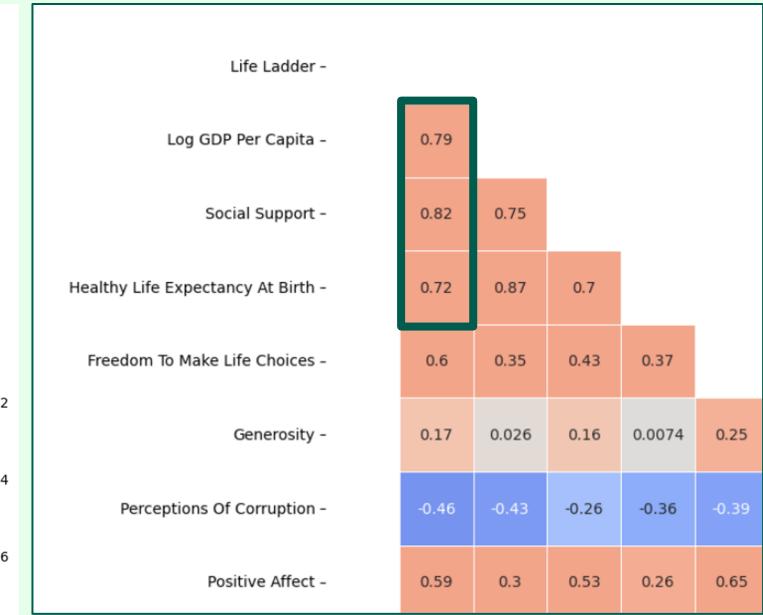
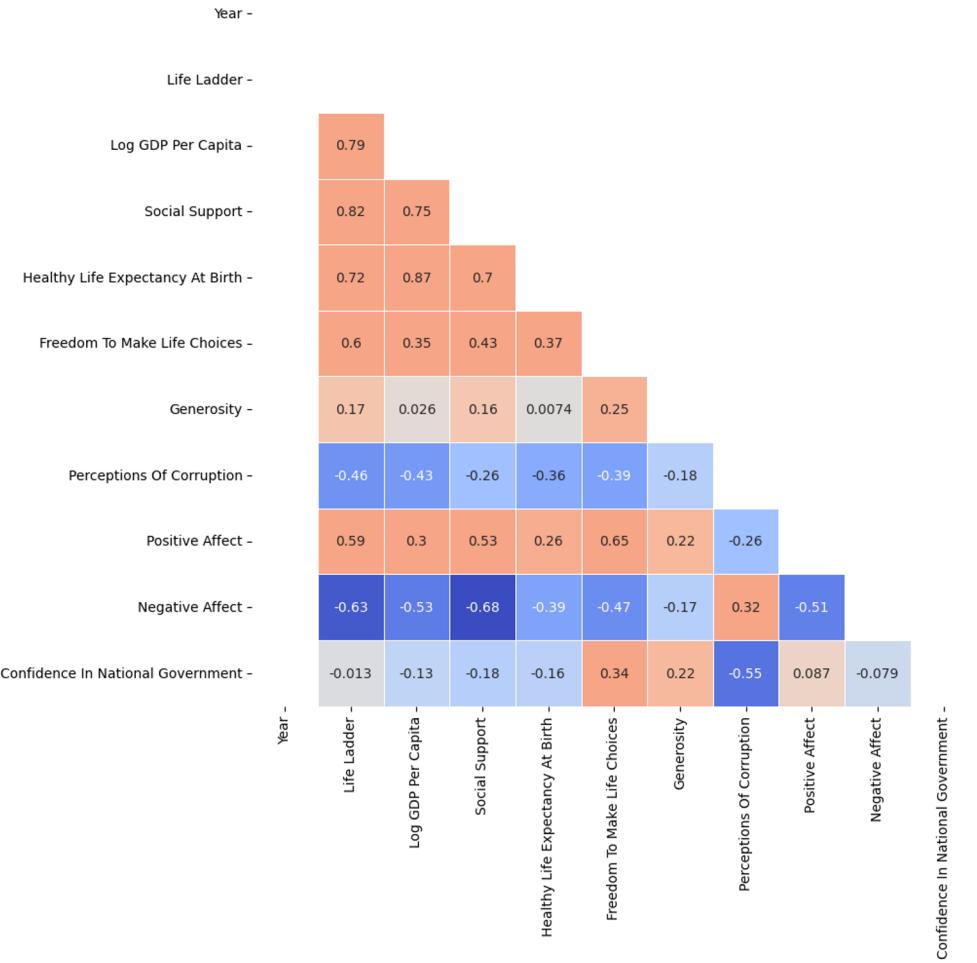
3. Insights

Happiness Score worldwide in 2021



- Missing value in some of the countries
- Africa has relatively low score compared to other countries. Why?

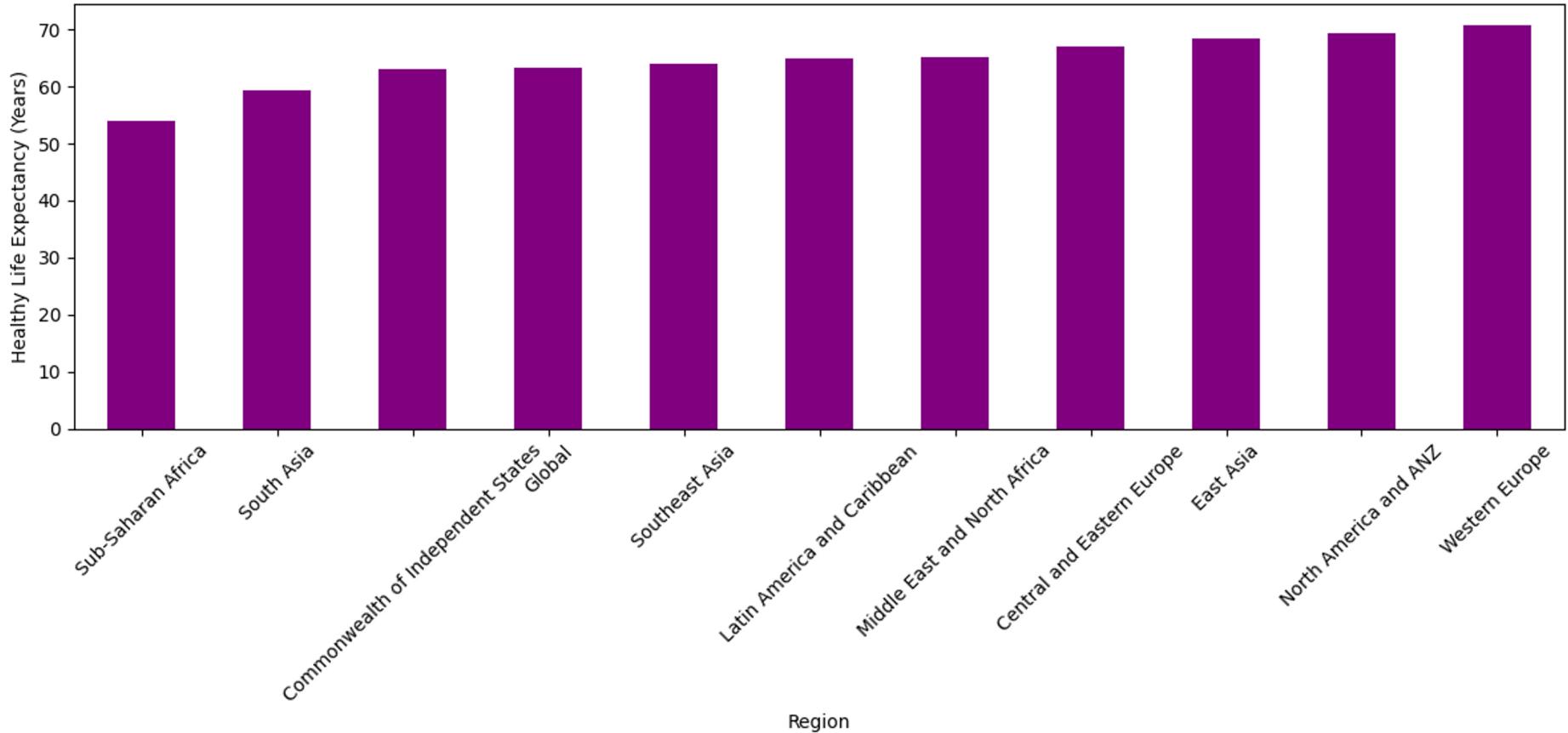
Heatmap of Correlation Matrix for 2021



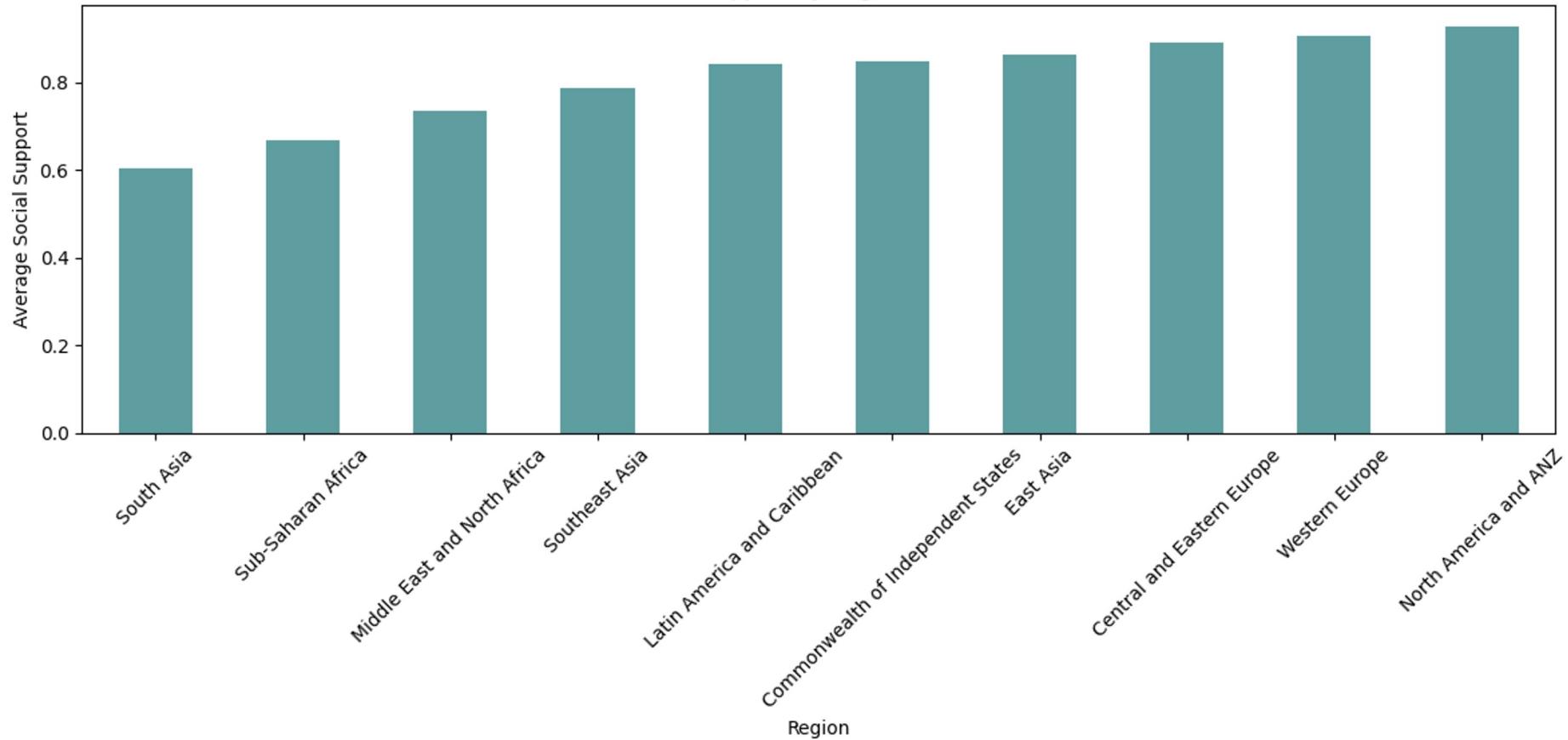
Most prominent relations:

- GDP per capita
- Social support
- Healthy life expectancy at birth

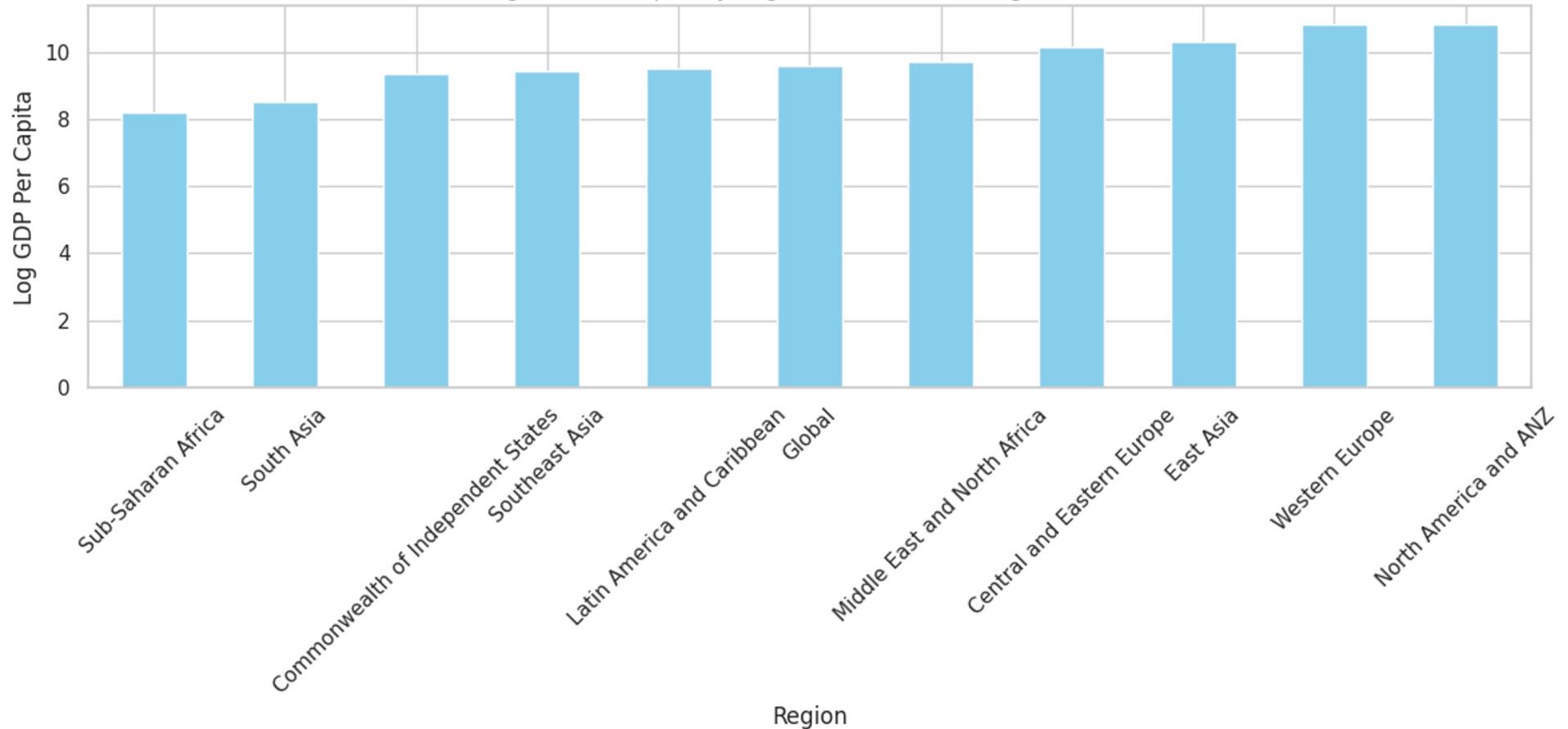
Healthy Life Expectancy at Birth by Region and Global Average



Social Support by Region for 2021



Log GDP Per Capita by Region and Global Average for 2021





Why is Africa “sad”?

- Dissatisfaction with democracy.
- Continent with lowest GDP per capita, life expectancy, and has some of the most corrupt countries.





Why is Africa “sad”?

positive and negative, to better track how covid-19 had altered their lives.

Unemployment, insecurity, hunger, inflation, and poor health services are also making Africans sad

Apart from covid-19, other causes include unemployment, insecurity, hunger, inflation, and poor health services.

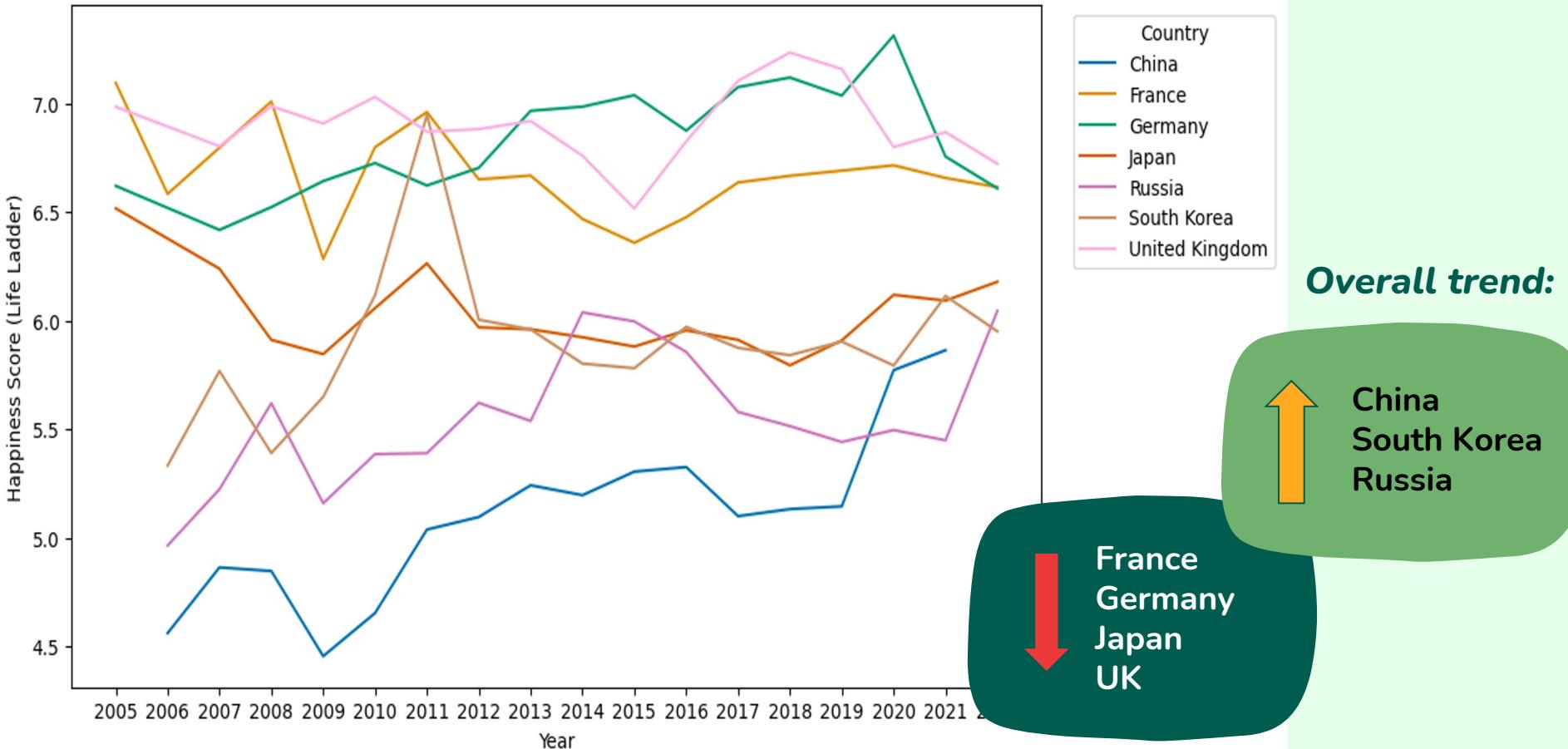
‘governments with low levels of corruption, to have high levels of trust, and to be able to meet citizens' basic needs for food and health.'

Another reason for the low score of African countries in the happiness index, is citizens' experience of 'lived poverty'. To ascertain this, 'respondents are asked whether they have gone without six basic necessities in the past year, ranging from food and water to electricity in the home.' It is this that may explain dissatisfaction in countries like Burundi. Algeria, on the other hand, which is the happiest African country, is a leading oil-exporting country.

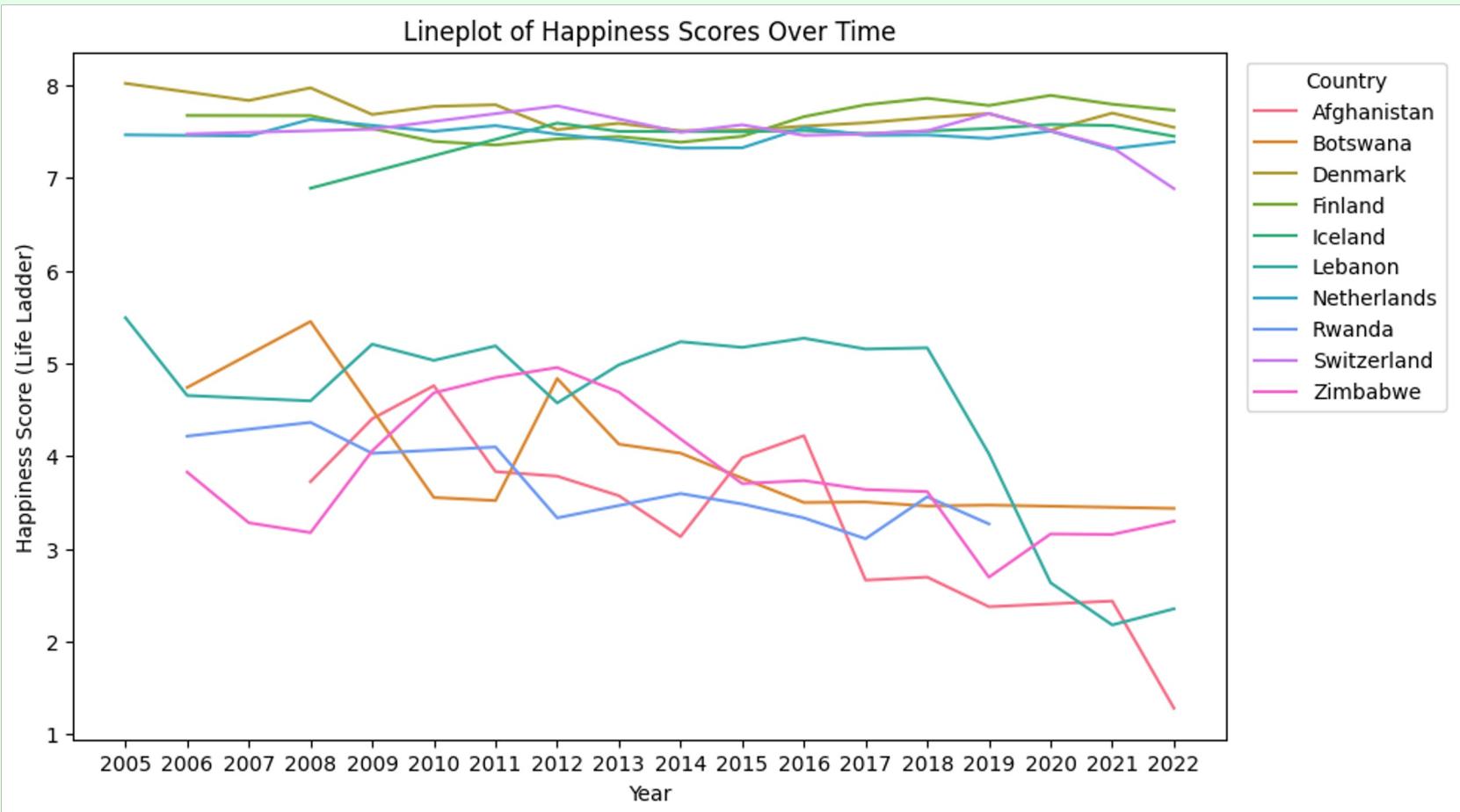
Works Cited:

- <https://qz.com/africa/2171425/world-happiness-report-africa-has-the-worlds-saddest-population>
- <https://trueafrica.co/article/heres-why-eight-african-countries-are-among-the-worlds-unhappiest/#:~:text=Another%20reason%20for%20the%20low%20electricity%20in%20the%20home>

Lineplot of Happiness Scores Over Time for the Most Influential Countries



Top 5 happiest and unhappiest countries



Factors that affect the Happiness Score of the 10 nations

| | Estimate | t-value | p-value |
|--|----------|---------|---------|
|--|----------|---------|---------|

| | | | |
|----------------|---------|-------|----------|
| Social.Support | 3.39326 | 4.939 | 6.10e-06 |
|----------------|---------|-------|----------|

| | | | |
|------------|---------|-------|----------|
| Generosity | 5.20710 | 6.264 | 3.76e-08 |
|------------|---------|-------|----------|

| | | | |
|----------------|---------|-------|--------|
| GDP.Per.Capita | 0.36374 | 2.150 | 0.0354 |
|----------------|---------|-------|--------|



| | Estimate | t-value | p-value |
|--|----------|---------|---------|
|--|----------|---------|---------|

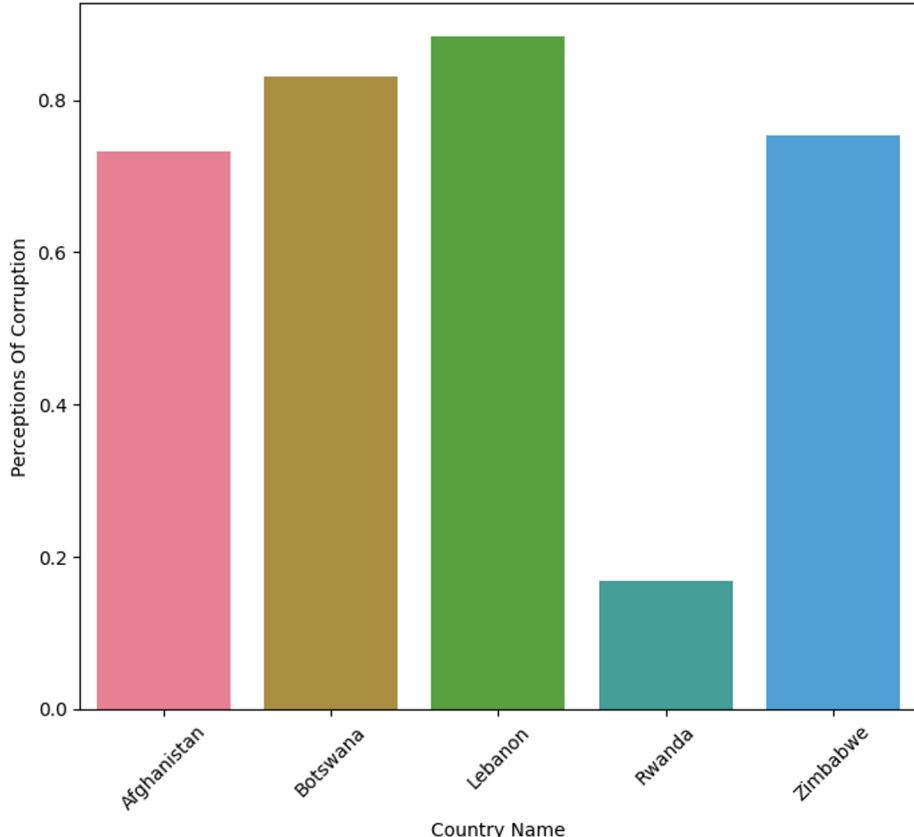
| | | | |
|----------------|---------|-------|---------|
| Social.Support | 2.33252 | 2.191 | 0.03235 |
|----------------|---------|-------|---------|

| | | | |
|---------------------------|----------|--------|---------|
| Perceptions.Of.Corruption | -0.35119 | -2.101 | 0.03981 |
|---------------------------|----------|--------|---------|

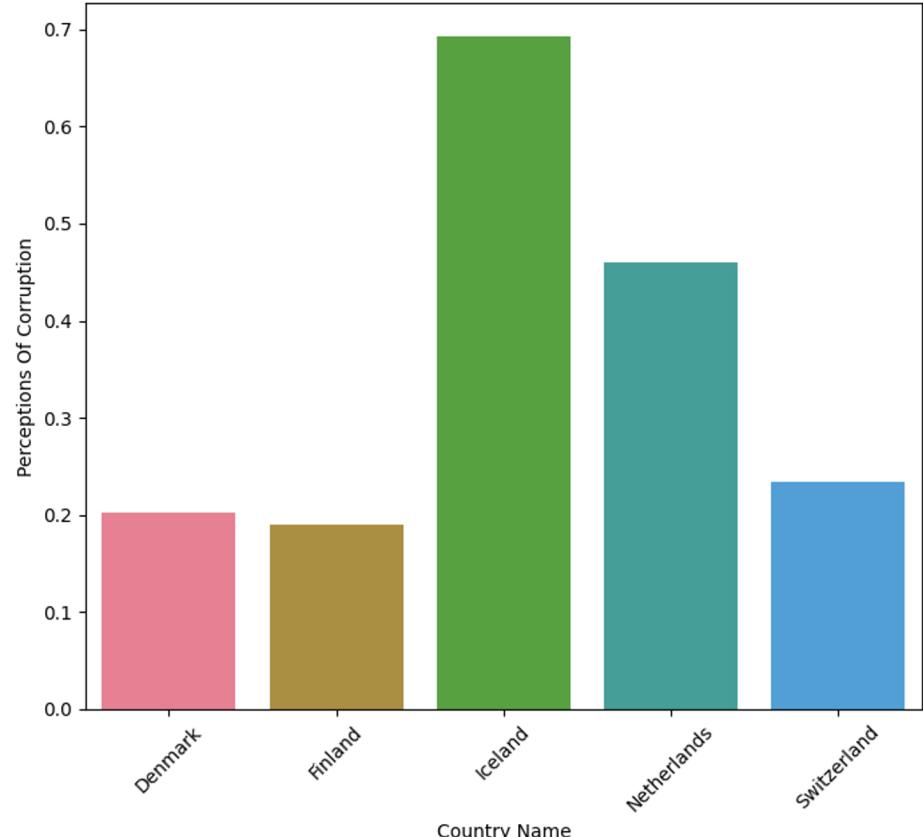
| | | | |
|------------------------------|---------|-------|---------|
| Freedom.To.Make.Life.Choices | 3.13491 | 3.347 | 0.00142 |
|------------------------------|---------|-------|---------|



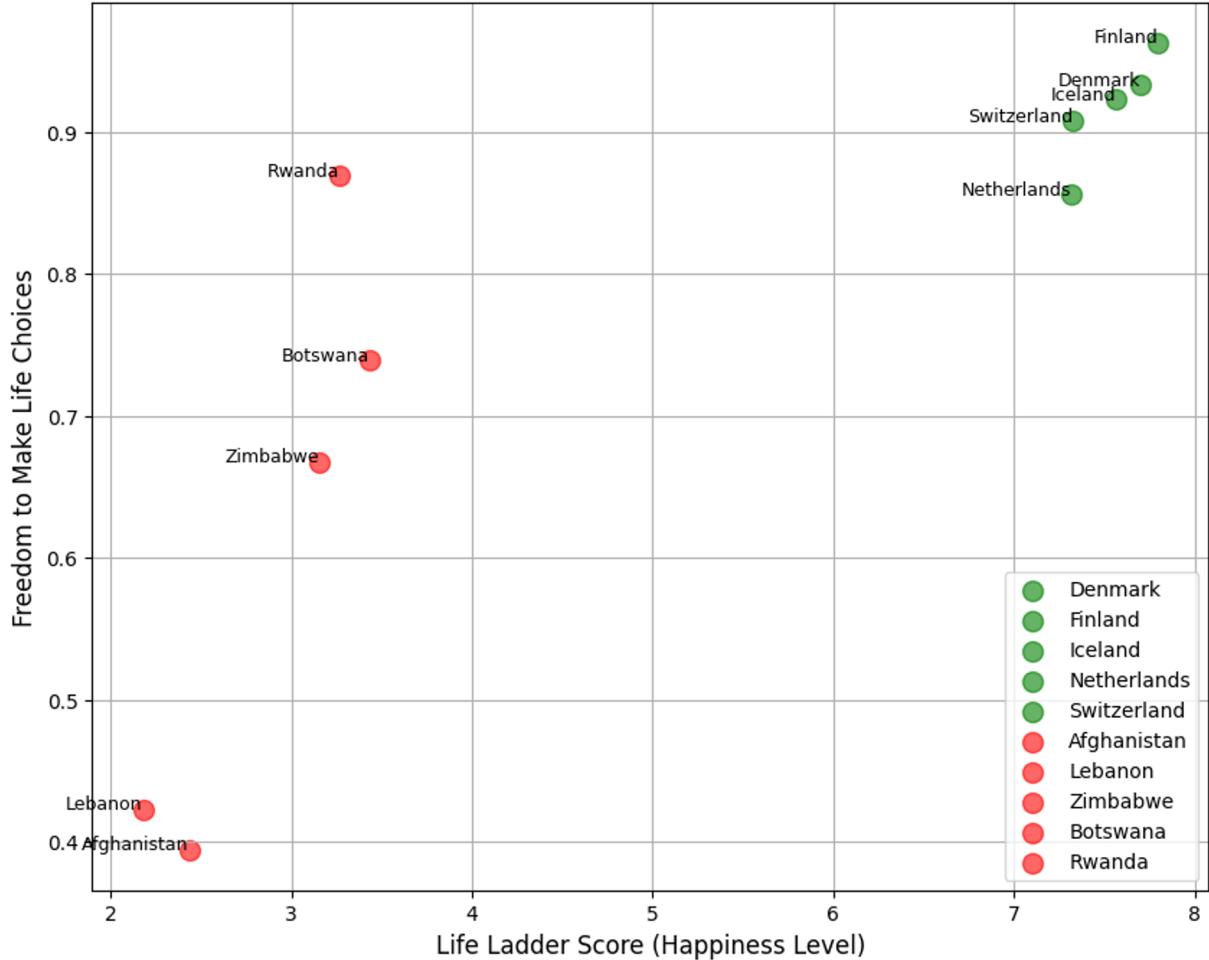
Perception of Corruption
Afghanistan, Botswana, Lebanon, Rwanda, Zimbabwe



Perception of Corruption
Denmark, Finland, Iceland, Netherlands, Switzerland



Freedom of Life Choices vs Happiness Level (Selected Countries)



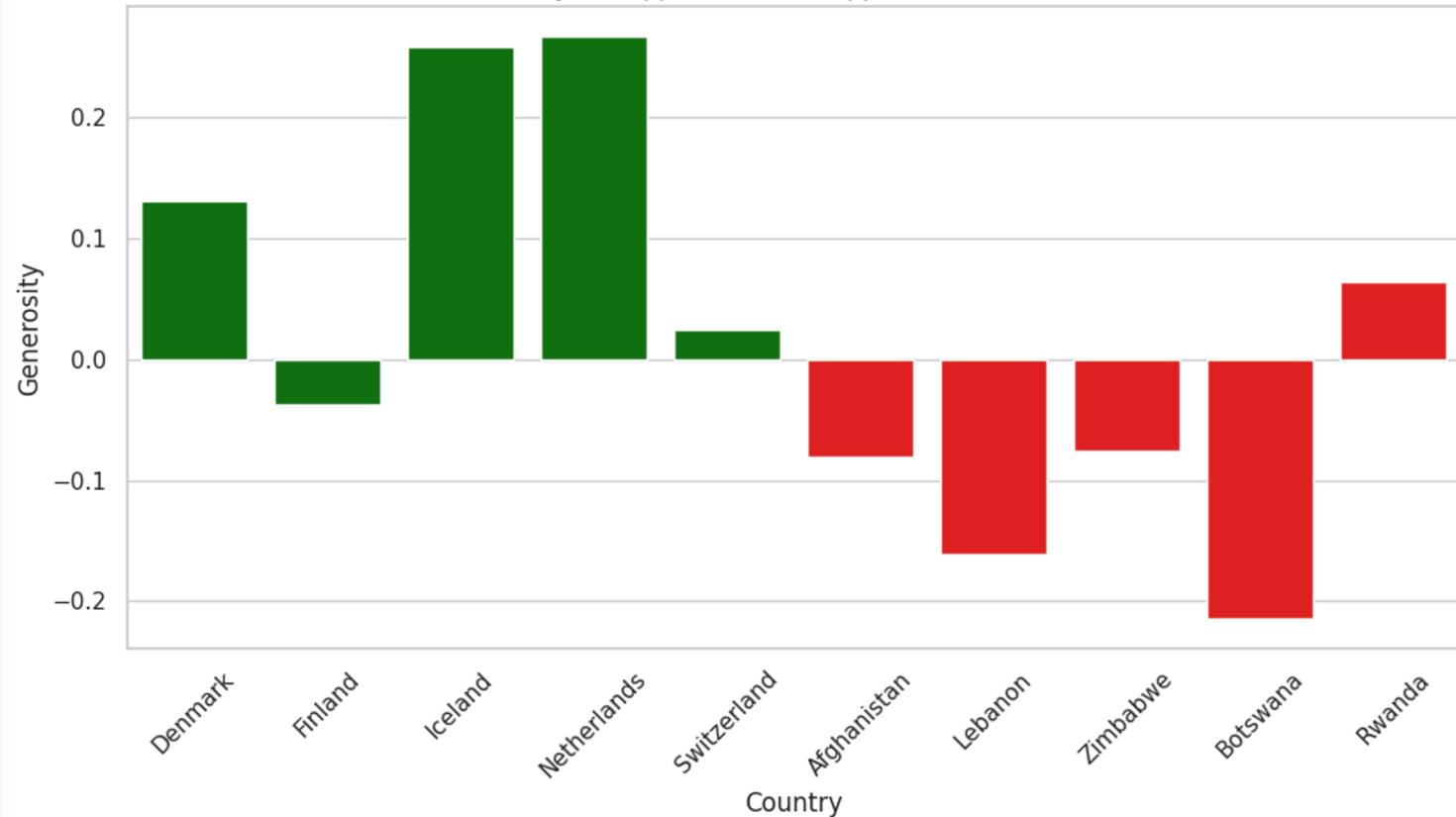
The happiest countries have high scores in the Freedom to make Life Choices index.

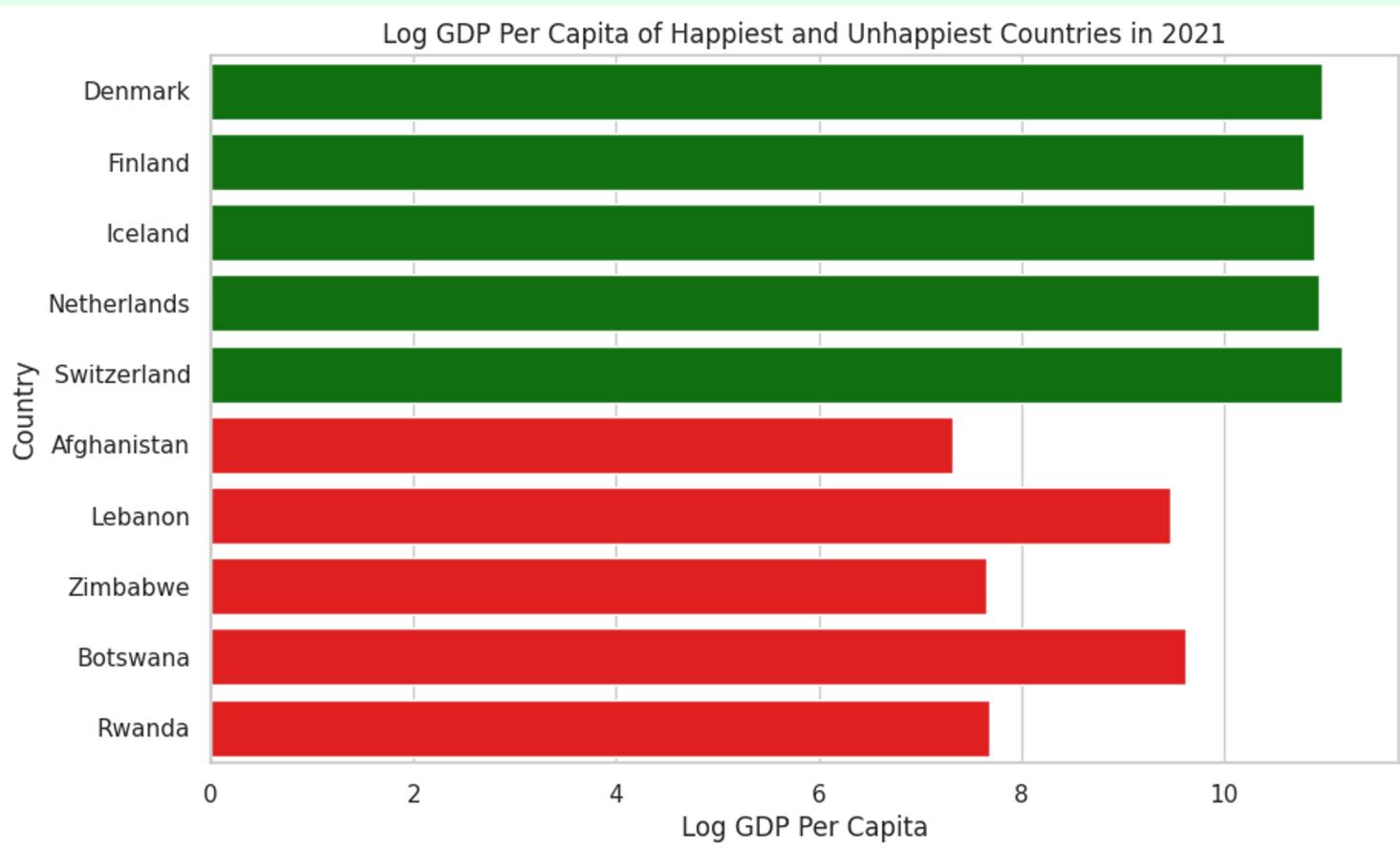
The least happy countries not only lack high scores in the Freedom to make Life Choices index but also, in some cases, record low figures.



Maslow's hierarchy of needs

Generosity of Happiest and Unhappiest Countries in 2021





4. Conclusion

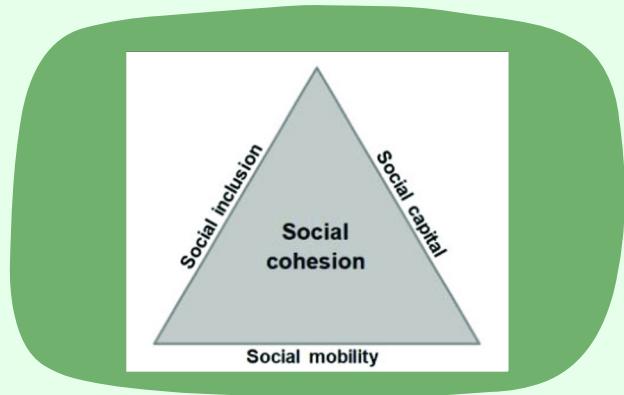
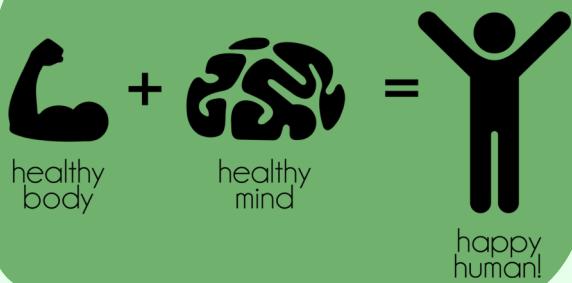
Kết luận



Factors that affect the most:

- Social support
- Healthy Life Expectancy at Birth
- Log GDP per capita
- Perceptions Of Corruption

Đề xuất



- **Socially support mental health + physical health**
- **Provide decent working conditions + insurance**
- **More efficient social cohesion**



Since 2010, Africa has implemented national policies and plans aimed at improving the quality of life for its citizens, including:

- 1. Investing in healthcare infrastructure.**
- 2. Providing health insurance coverage for the population.**
- 3. Gradually resolving conflicts and internal wars.**
- 4. Establishing new government agencies.**



<https://onlinelibrary.wiley.com/doi/full/10.1111/j.1468-2370.2009.00270.x>

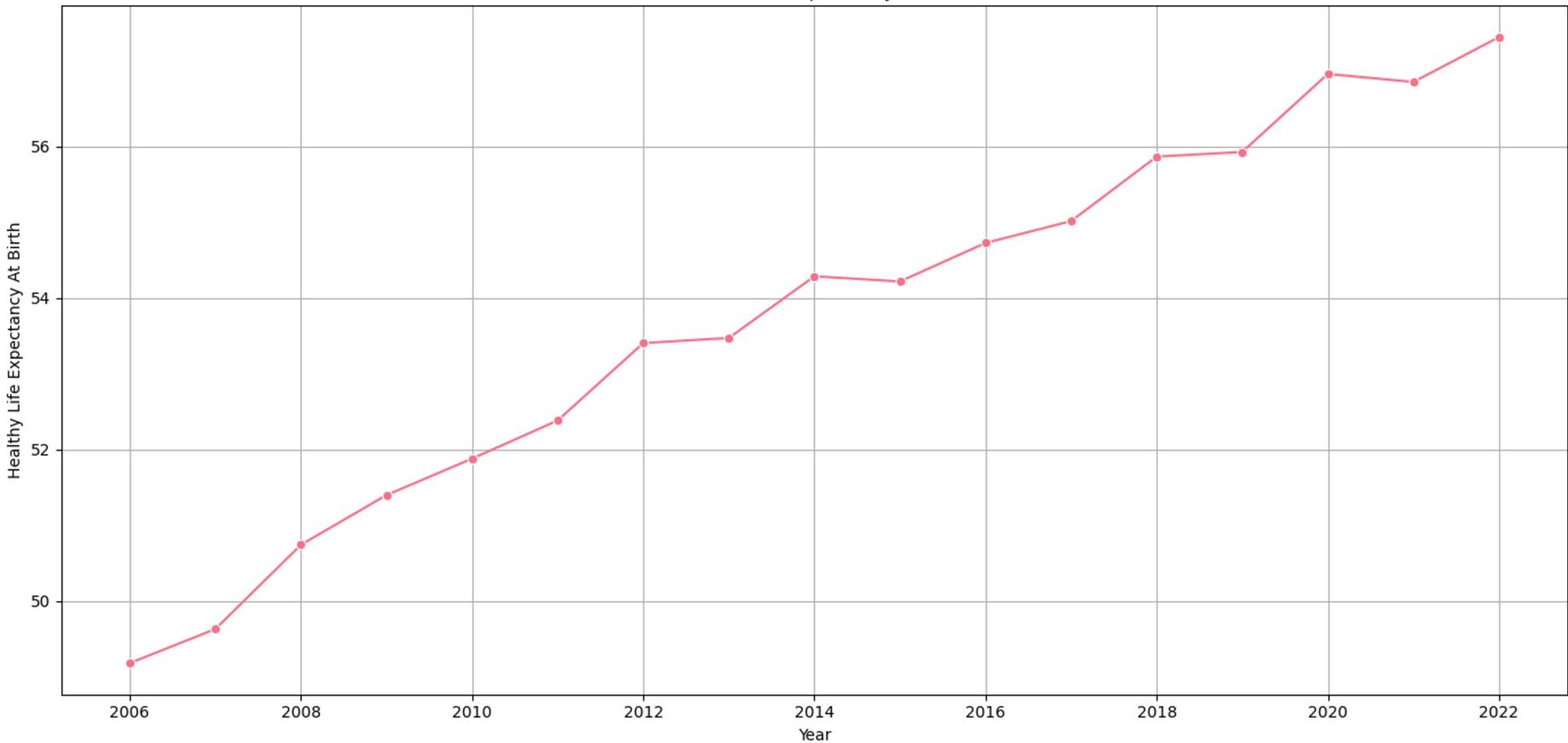
<https://www.annualreviews.org/doi/pdf/10.1146/annurev-publhealth-040218-044150>

<https://www.pewresearch.org/global/2007/07/24/happiness-is-increasing-in-many-countries-but-why/>

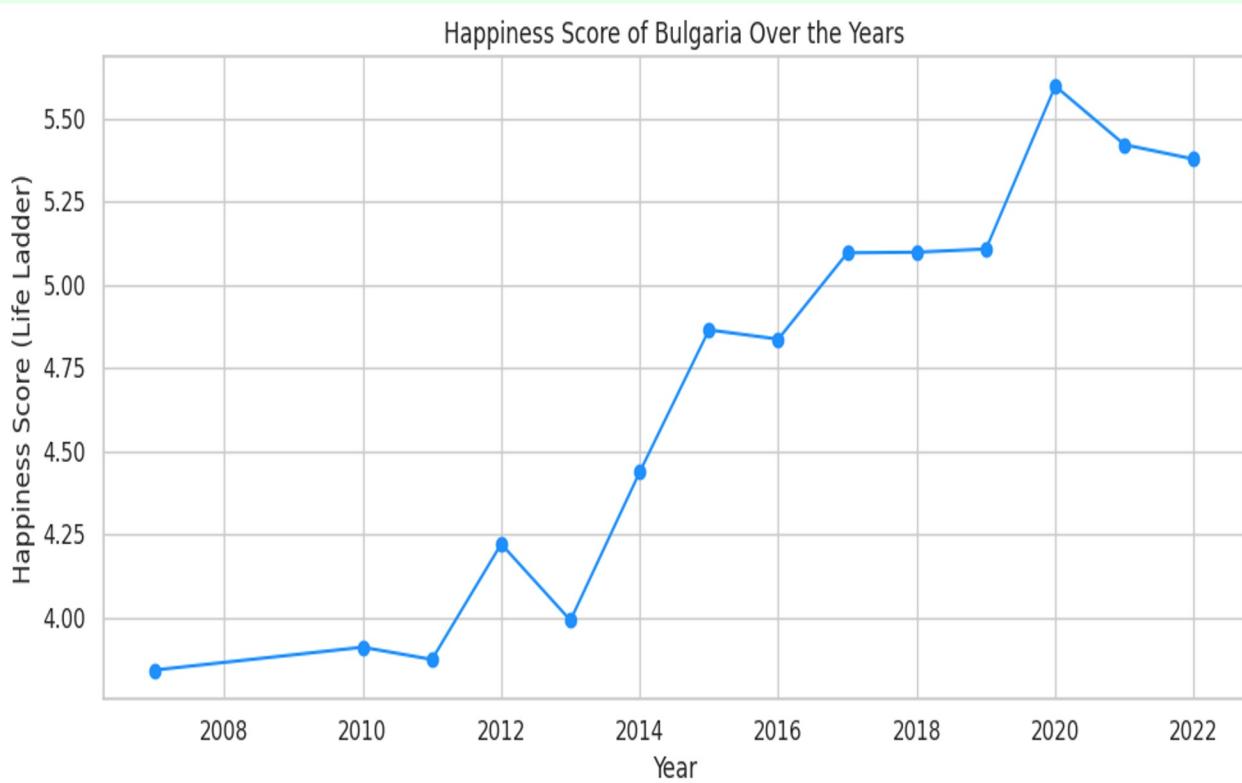
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Trend of Africa's Life Expectancy Over the Years



- In the 1990s, Bulgaria faced issues such as inflation, low GDP, and severe corruption within the government.
- Following reform and changes in the early 2000s, Bulgaria's happiness index has increased significantly.





Thanks for listening!

