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World Happiness Report 2015–2021

December 2022

Data Source

Summary

The World Happiness Report is a global survey that measures 155 countries happiness levels. This report was first published in 2012, although this analysis will strictly cover 2015 – 2021. The reports review the state of happiness based on six factors: GDP per Capita, Family, Life Expectancy, Freedom, Generosity and Trust (Government Corruption). Combining all these factors produces a happiness score for each country. The World Happiness Report helps measure a nation's progress and their people's happiness and lifestyles.

Data Source

<https://www.kaggle.com/datasets/mathurinache/world-happiness-report>

Why this Dataset?

Examining a countries happiness level will give the population insight on what factors contribute most to a their country's happiness. Gaining a better understanding of these factors will provide a country's population to broaden their perspectives on other countries lifestyles and culture. The pandemic in 2020 also shifted the world's perspectives on life and the importance of being happy.

Data Profile

Limitations & Ethics

This analysis includes data from 155 countries, this accounts for roughly 80% of the countries around the world. The countries included in this analysis are not surveyed every year, there may be missing data in certain years from 2015–2021.

The Dystopia Residual column is not included in the 2018–2019 dataset.

Data Cleaning & Consistency

- Year column added to each dataset
- Rank column added to each dataset
- Columns renamed for consistency
- Organized columns for smoother merging of datasets
- Merged eight datasets together
- Checked for missing values
- Deleted one row with N/A
- Checked for duplicates
- Checked for mixed-type data

Data Profile

Variable	Time-Variant	Structured/Unstructured	Qualitative/Quantitative	Nominal/Ordinal/Discrete/Continuous
Rank	Yes	Structured	Qualitative	Discrete
Country	No	Structured	Qualitative	Nominal
Region	No	Structured	Qualitative	Nominal
Year	No	Structured	Qualitative	Nominal
Happiness Score	Yes	Structured	Quantitative	Continuous
Economy (GDP per Capita)	Yes	Structured	Quantitative	Continuous
Family (Social Support)	Yes	Structured	Quantitative	Continuous
Health (Life Expectancy)	Yes	Structured	Quantitative	Continuous
Freedom (Life Choices)	Yes	Structured	Quantitative	Continuous
Trust (Government Corruption)	Yes	Structured	Quantitative	Continuous
Generosity (Donations to Charity)	Yes	Structured	Quantitative	Continuous
Dystopia Residual	Yes	Structured	Quantitative	Continuous

Descriptive Statistics

	RANK	Year	Happiness Score	Economy (GDP per Capita)	Family (Social Support)	Health (Life Expectancy)	Freedom (Life Choices)	Trust (Government Corruption)	Generosity (Donations to Charity)	Dystopia Residual
count	1230.000000	1230.000000	1230.000000	1230.000000	1230.000000	1230.000000	1230.000000	1230.000000	1230.000000	1230.000000
mean	77.421951	2018.447154	5.430093	0.976252	1.032981	0.608136	0.440830	0.146945	0.185986	2.038960
std	44.486273	2.282716	1.115363	0.435255	0.329518	0.241245	0.154416	0.122958	0.112426	0.573633
min	1.000000	2015.000000	2.404000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.184000
25%	39.000000	2016.000000	4.584500	0.668250	0.825000	0.439250	0.344250	0.061000	0.102000	1.686000
50%	77.000000	2018.000000	5.410500	1.013500	1.069000	0.639500	0.458000	0.107000	0.171500	2.060500
75%	116.000000	2020.000000	6.226000	1.296000	1.273500	0.791000	0.559000	0.190750	0.248000	2.421250
max	158.000000	2022.000000	7.842000	2.209000	1.644000	1.141000	0.740000	0.862000	0.820000	3.838000

Questions

- What factors contribute most to a country's happiness score?
- What Regions have the happiest countries? Lowest happiness scores?
- Is there a shift in happiness scores from 2020–2021?
- What are the top 10 countries with the highest happiness score?
- What is the difference from the top 10 countries with the highest happiness scores in comparison to the top 10 lowest happiness scores?