World Happiness Analysis (2015 - 2019)

Executive Summary | Six measurable categories | Correlations for measurable categories | An unmeasurable factor | The happiest and unhappiest countries | Highest scoring countries in measurable categories | Predicting happiness scores

The World Happiness Report is a landmark survey of the state of global happiness that ranks approximately 156 countries by how happy their citizens perceive themselves to be. It was first published in 2012 and continues to release a new report each year. based on the reports from 2015 to 2019, we checked to see which countries consistently remained the happiest over five years. Throughout this report, we will be looking at:

- Measurable categories contributing to a happiness score
- The correlation of these categories
- An unexplained factor that contributes to a happiness score
- The happiest and least happiest countries in the world

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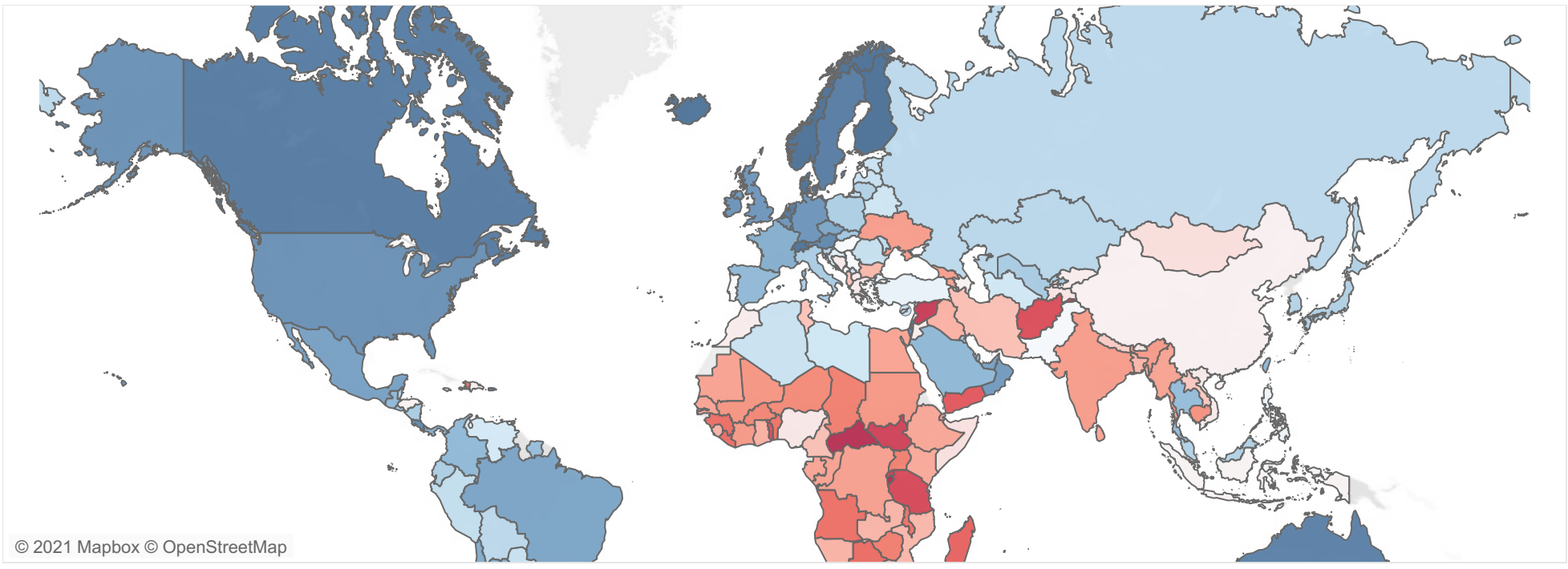
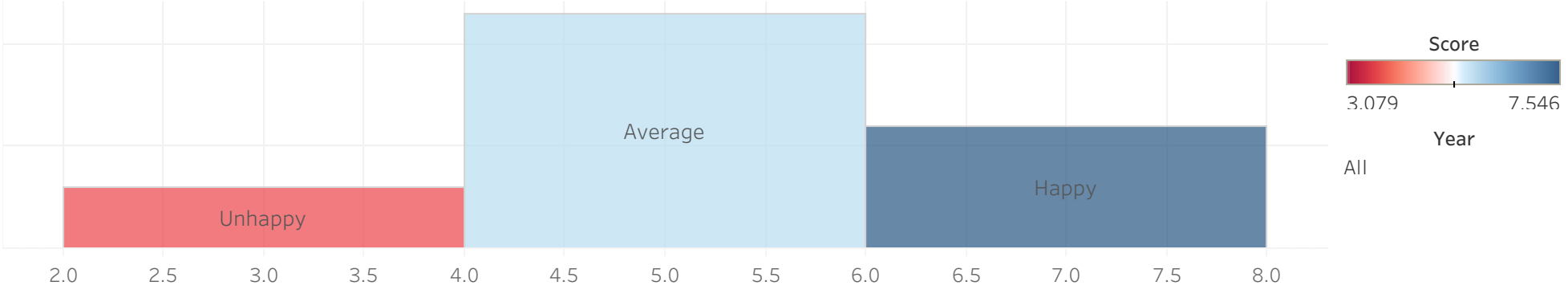
Average Happiness Scores Around the World





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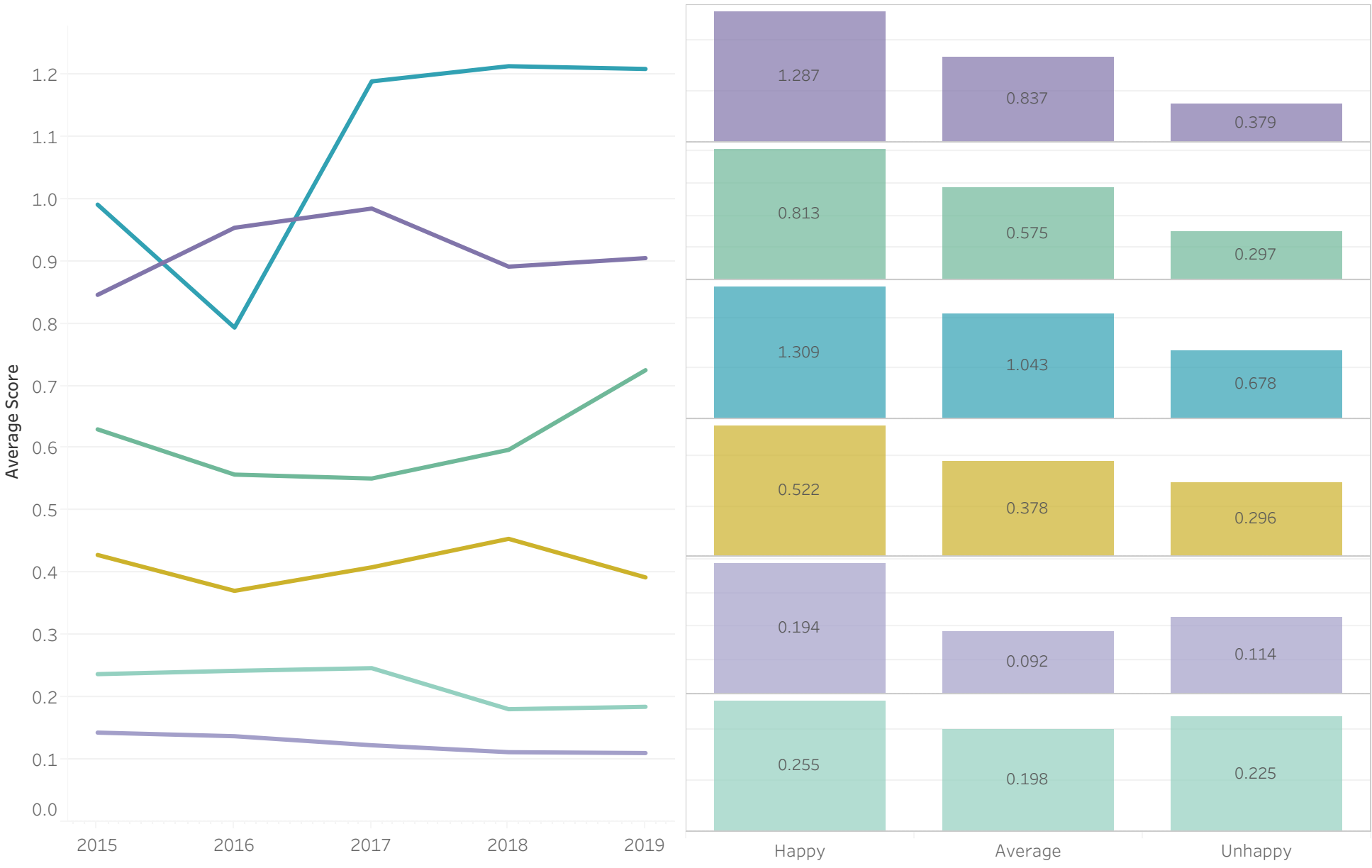
The six factors scores below are based on answers to life evaluation questions asked in polls. The trend for majority of the categories increase throughout the years while trust in government and generosity decline. Happy countries scores higher in all categories in comparison to the rest of the world. However, unhappy countries score higher in trust in government and generosity than average scoring countries.

Economy
Life Expectancy
Social Support
Freedom
Trust in Government
Generosity

Average Category Scores



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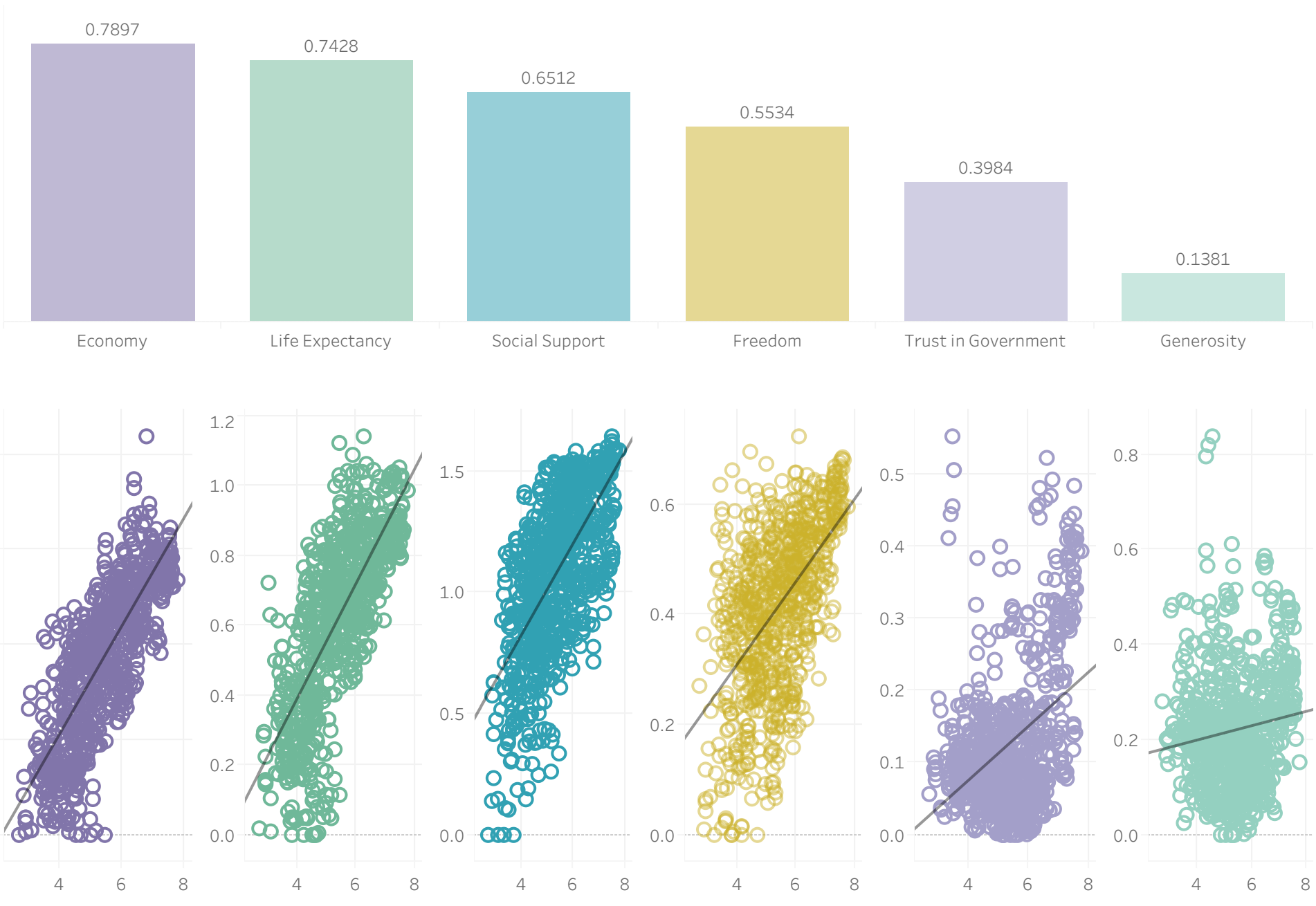
All six categories are positively correlated to a country's happiness score. When plotted against the happiness score, we see the category score increase along with the happiness score. The three most strongly correlated factors contributing to happiness scores are a country's economy, life expectancy, and social support while the least important factor is generosity. ..

Correlation Coefficients



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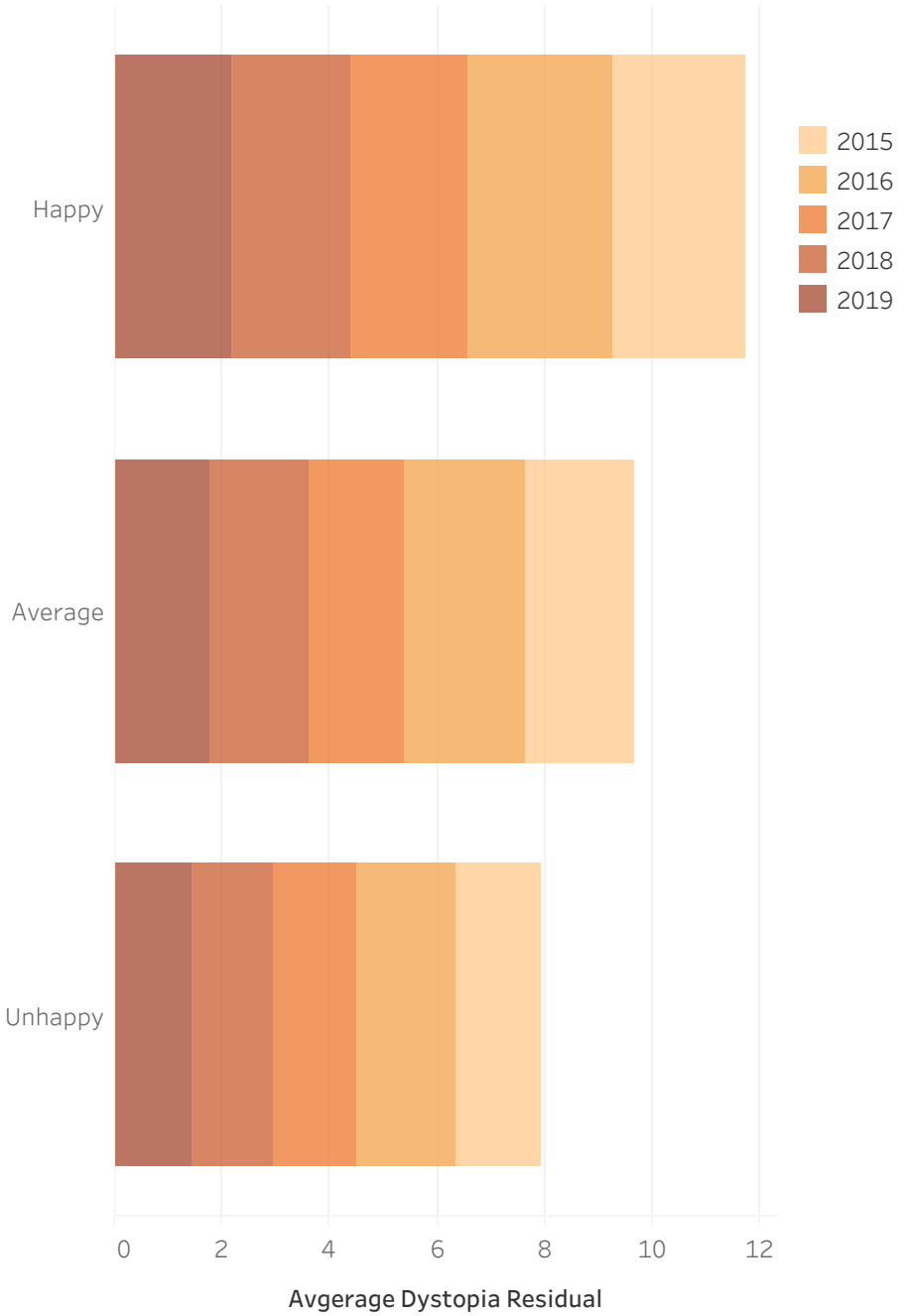
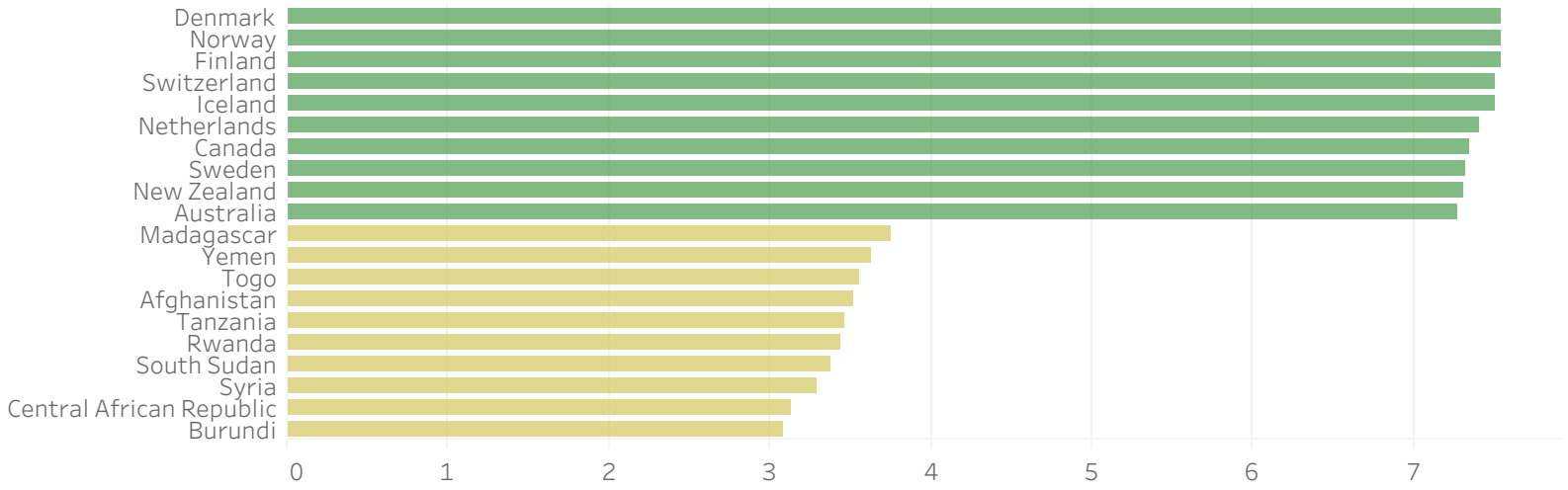
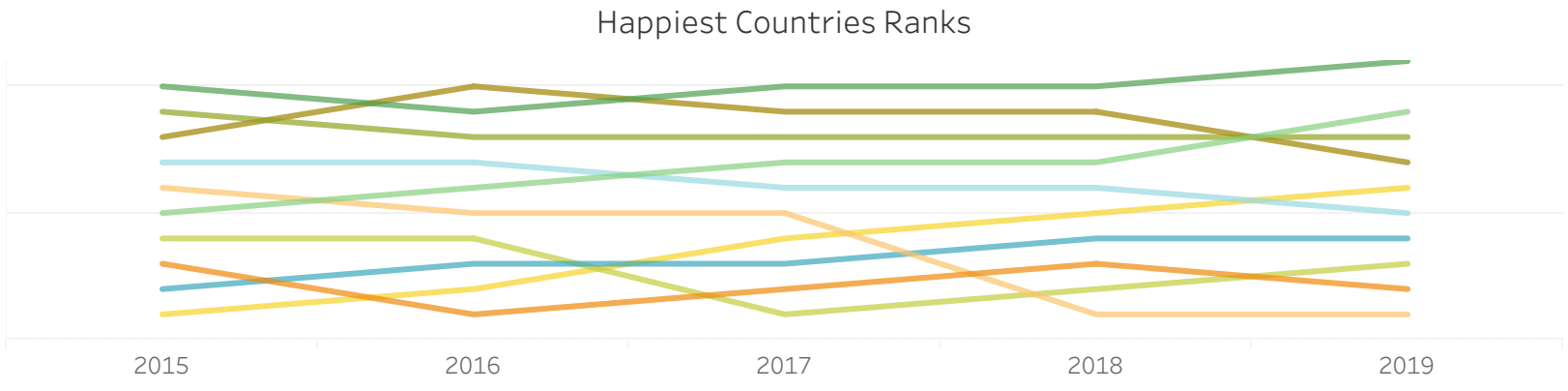
The seventh factor making up a country's happiness score is the dystopia residual. It is calculated by industry leading professionals in order to explain life evaluations that were under or over explained by the other categories. Each country has a different unexplained component and while we can see the residuals increase each year, the higher a country's happiness score is, the larger their residuals.

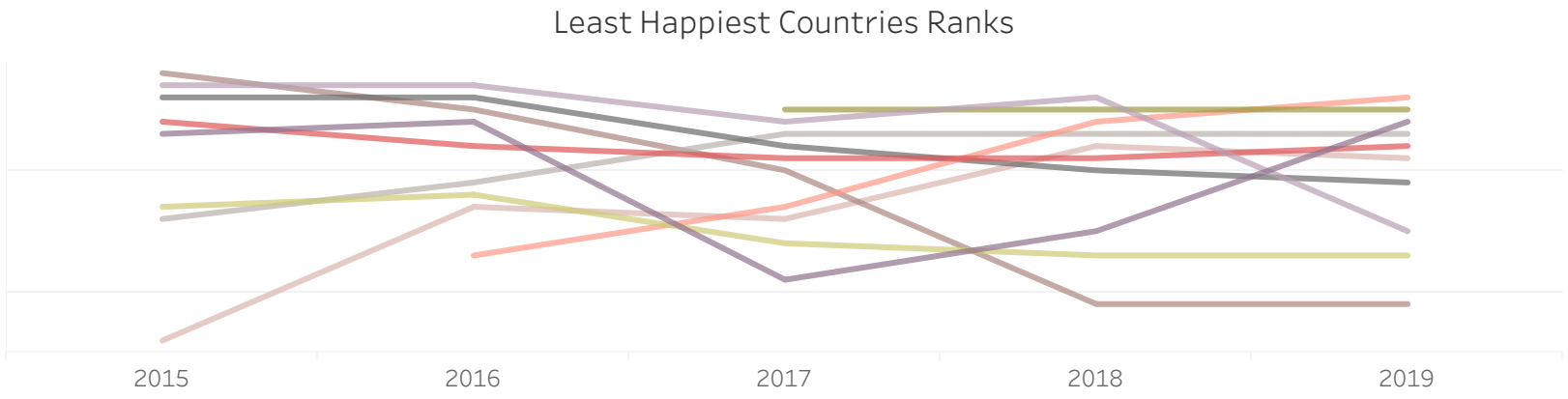


World Happiness Analysis (2015 - 2019)

The following countries received the highest and lowest averaged scores. The ranks of the top ten countries (considered the happiest in the world) shift throughout the years, but the majority still remain in the top ten ranks each year while the unhappiest countries ranks were more volatile.





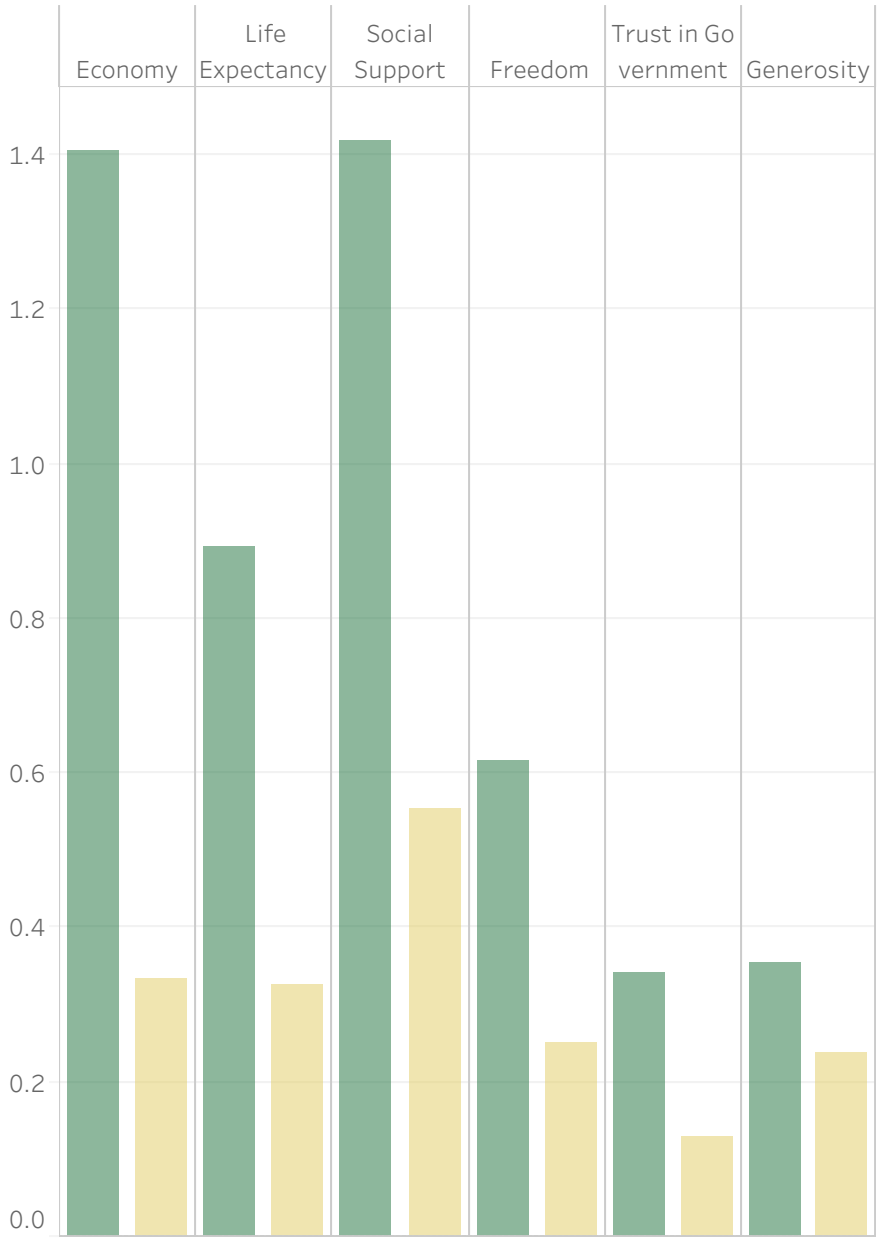


World Happiness Analysis (2015 - 2019)

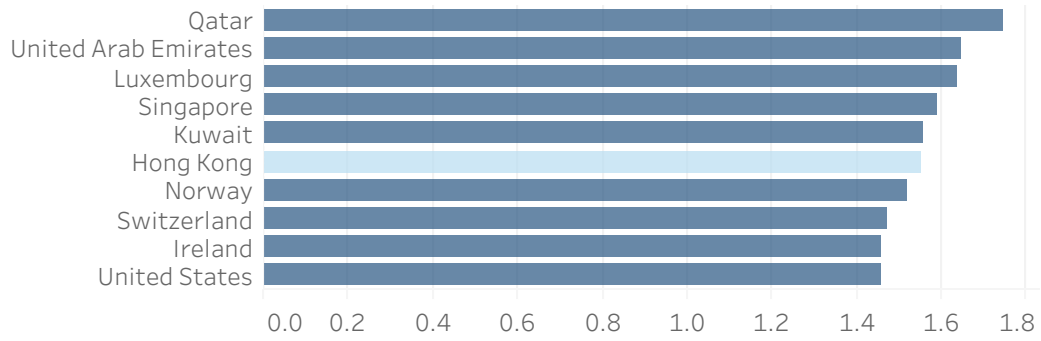
The happiest countries almost double what the unhappiest countries score in each category. The largest differences were in economy, life expectancy, and social support. A majority of the countries that ranked the highest in each of those category were also found to be happy...

Happiest Countries
Least Happiest Countries
Average
Happy

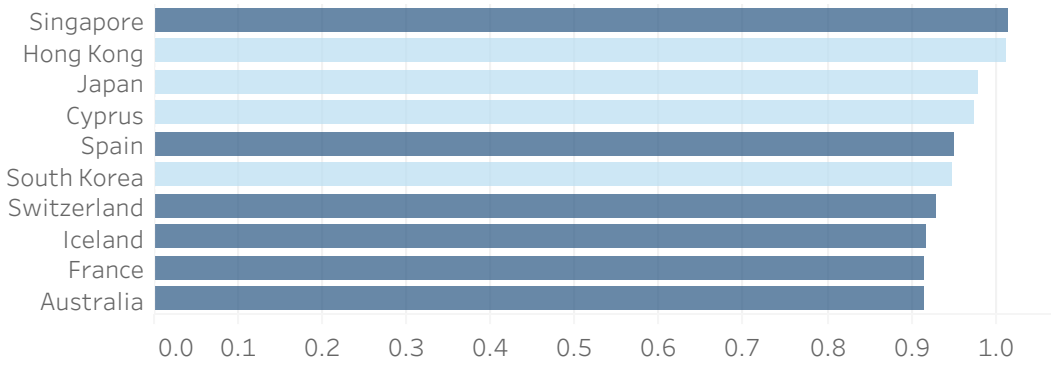
Average Scores for Ten Happiest and Least Happiest Countries



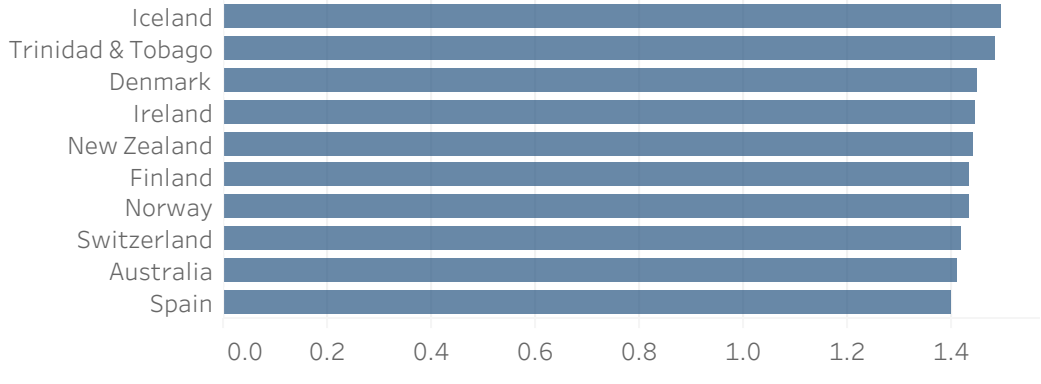
Economy



Life Expectancy



Social Support



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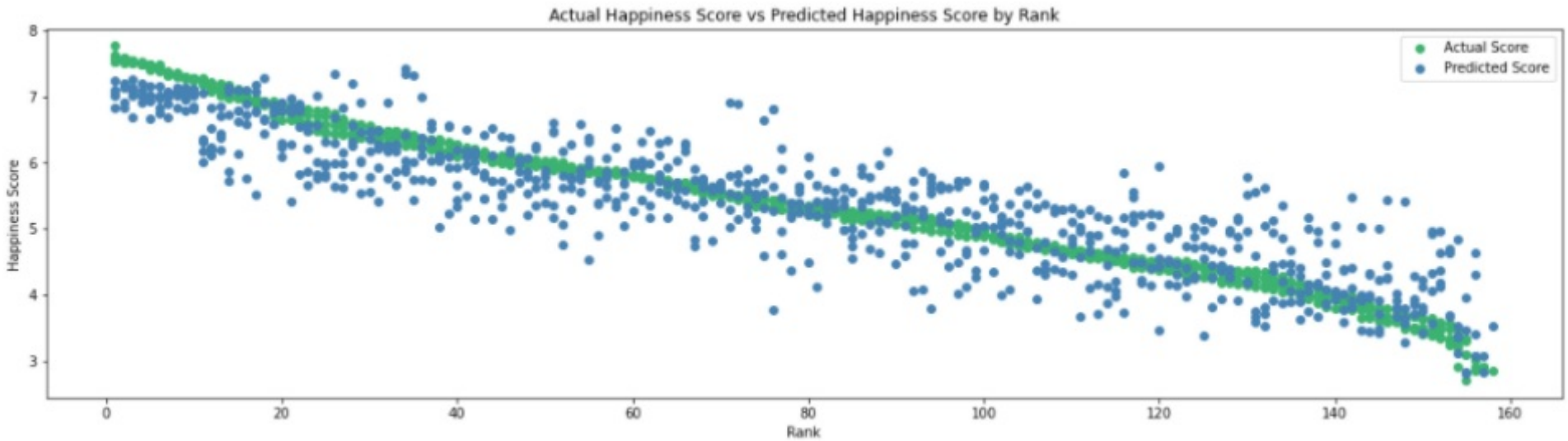
Using the six variables, economy, social support, life expectancy, freedom, generosity, and trust in government, we were able to create a multiple linear regression model to predict a country's score with a 76% accuracy.



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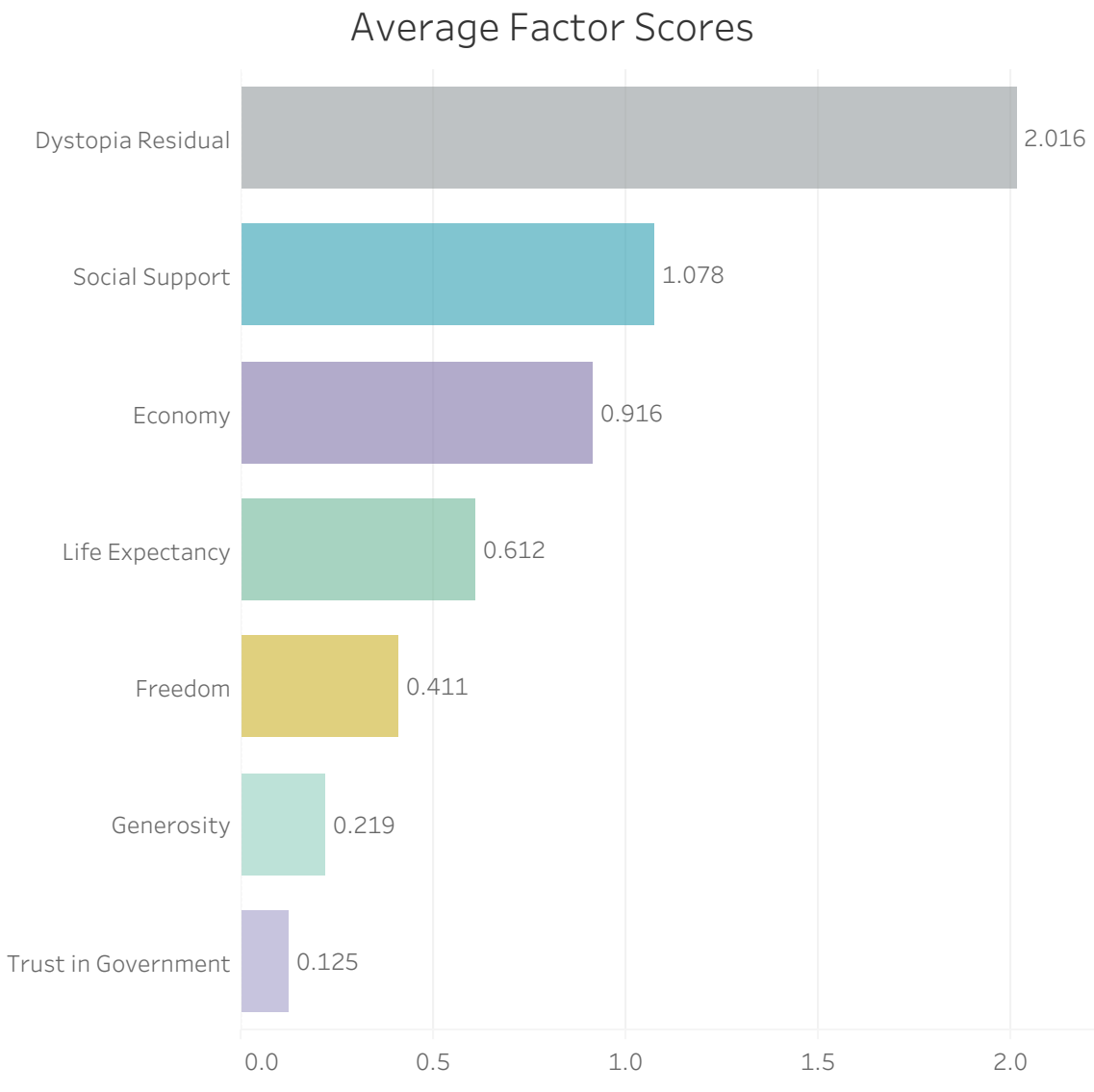
In conclusion,

- Happiness scores mainly made up of six factors: economy, life expectancy, social support, freedom, trust in government, and generosity.
- The largest contributing factors to happiness scores are economy, life expectancy, and social support.
- The seventh factor, residuals, is created by industry leading expert which also contributes to happiness scores called residuals.
- The happiest countries in the world generally stay happy while the unhappiest countries are moving towards higher scores.
- Having high scores in each category is generally a good indicator for a happy country.