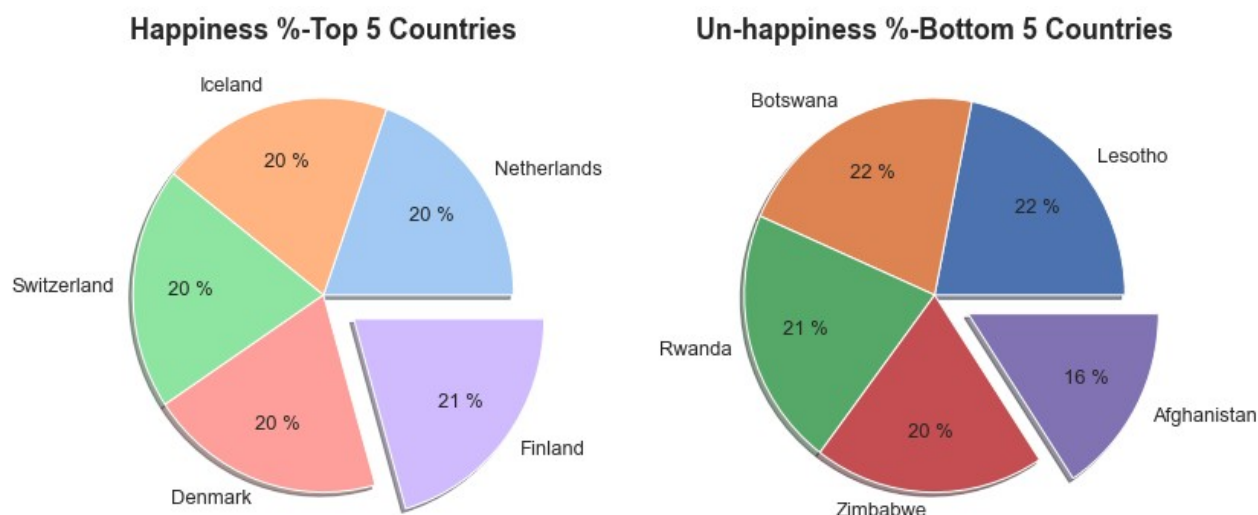


## Analysis of World Happiness Data from 2008 - 2021

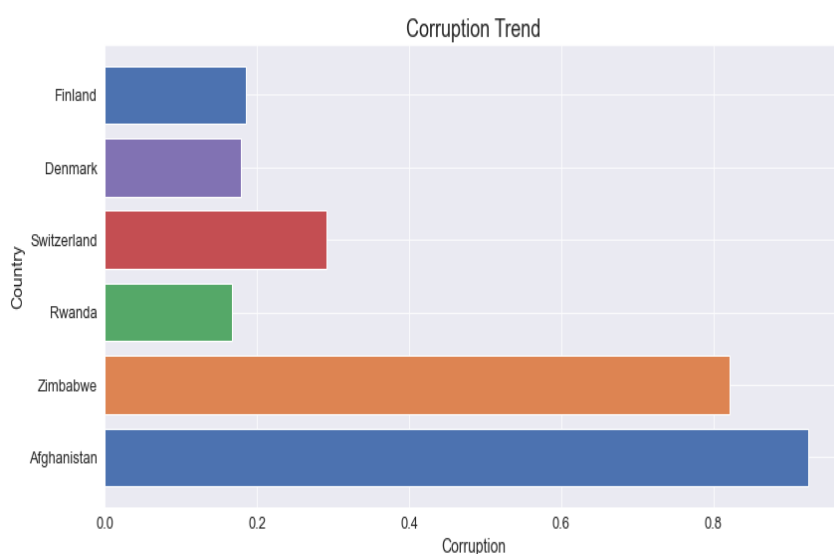
The world happiness data sets used for this analysis was collected from the Gallup World Poll website. The total happiness score has been calculated based on six different parameters derived from 149 countries such as Freedom, Life expectancy, Corruption, GDP, Social Support and Generosity. Extensive analysis was conducted on “2021 World Happiness Poll” data set versus “2008-2020 Happiness Trend data”. Most interesting findings are discussed below.

### The top five happiest and bottom five unhappiest countries - 2021

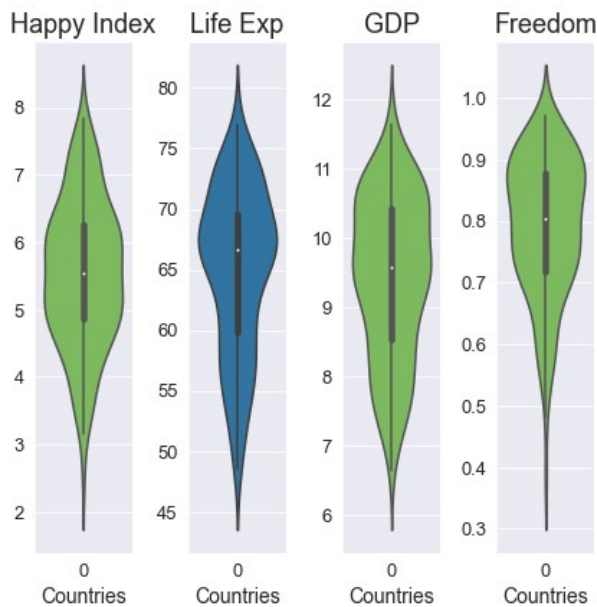


The above pie chart easily visualizes the percentage of happiness from the top 5 countries and unhappiness from the bottom 5 countries. Finland is leading the top 5 happiest country list by excelling the 6 parameters mentioned before. On the other hand, Afghanistan is far below in world happiness score due to unsettled country situation.

### Country Vs Corruption

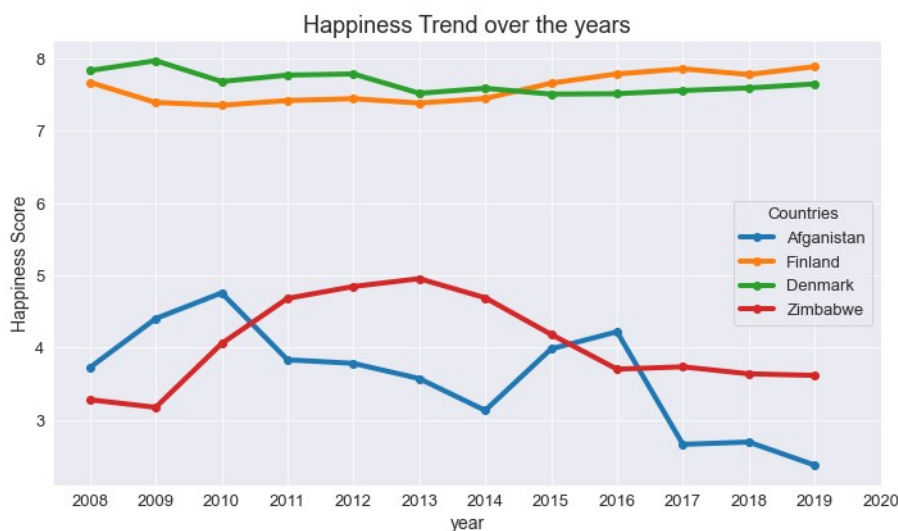
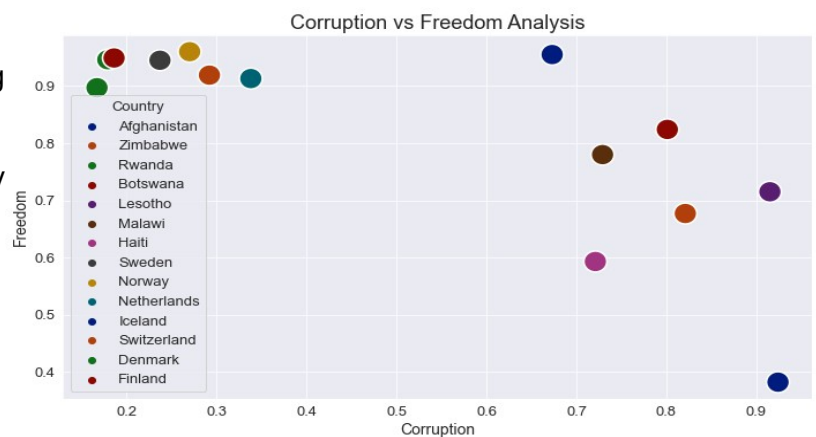


Furthermore, using the bar chart, we noticed that the corruption values are directly influencing the happiness of the country. The countries with lowest happiness score Afghanistan and Zimbabwe pose higher corruption rate as compared with highest happiest countries Finland and Denmark.



More specifically, analyzing the individual parameters using violin plot there is a rise in GDP and life expectancy as the happiness index score is increasing. Moreover, people from the majority countries does have an average life expectancy of 65-70 years of age. To be precise, the happiest countries tend to be older and less populous. The people are enjoying more freedom, those countries are happiest out of other countries.

The scatter plot brings out the interesting correlation between freedom and the corruption. The most corrupted country having the least freedom for the people to choose their life.



Finally, the line chart shows as the trend of happiness values of the countries over the years 2008 to 2020. Finland and Denmark are showing greater consistency over the countries Zimbabwe and Afghanistan those who are last in happiness index score.

In conclusion, with all the above analysis considering all factors shows that Finland with highest happiness index score above 7.5 over the 10 years and Afghanistan had a higher descent in happiness score over the years. If this trend continuous for another year, the happiness score will touch zero!!