TSM InfVis Module Task

World Happiness Report

Dataset
In the module project I would like to analyze and visualize a dataset about the state of global happiness. The report ranks 155 countries by their happiness levels in the time frame 2015 to 2020. It reviews the state of happiness globally and explain personal and national variations in happiness. The report uses data from the Gallup World Poll, which is based on answers to the main life evaluation. The best possible life being rated a 10 and worst possible life being a 0, participants of the survey were asked to rate their own lives on that scale. In total there are six factors contributing to life evaluations: economic production, social support, life expectancy, freedom, absence of corruption and generosity. The impact is in relation to Dystopia which is a hypothetical country that has values equal to the world's lowest national averages.

Project Goals
There are basically three major areas of interest, one is focusing on the individual factors contributing to happiness, the second one is a view on geographic distribution of happiness and the third one on changes over time. I ask myself the following questions.
How is happiness globally distributed? Are there clusters of countries with similar happiness levels? Are there countries that outperform to the better or worse? Are there major changes over the years or is the happiness pretty constant? Which factors contribute the most to peoples happiness?

Methods & Software
So far I have little experience with tools other than Excel or PowerPoint. Therefore over the course of this project I would like to start with Excel or Tableau and then strengthen my knowledge with the following Python tools:
- pandas for data analysis
- matplotlib for the visualization part
- geoplotlib to map geodatad

Sources:
World Happiness Report
Dataset

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