Lecture 12 – Data Visualization Challenge Review

Today's Learning Objectives:

    1. Practice your visualization skills with a novel challenge.

Data Visualization Challenge #1

What makes countries happier than others?

Info: https://worldhappiness.report/
Data: https://www.kaggle.com/unsdsn/world-happiness

Challenge: Make a visualization that shows one or more factors influence the happiness of people in the world.

- Your visualization should stand on its own.
- Your visualization can be in any format.
- Your visualization can have as much text or as many figures as you wish.

There are no correct/incorrect answers, only
good, bad, ugly, and wrong
visualizations!

Submit: a single image file to assignment on Canvas by 3/13 at noon.

What are qualities of a Good Visualization?

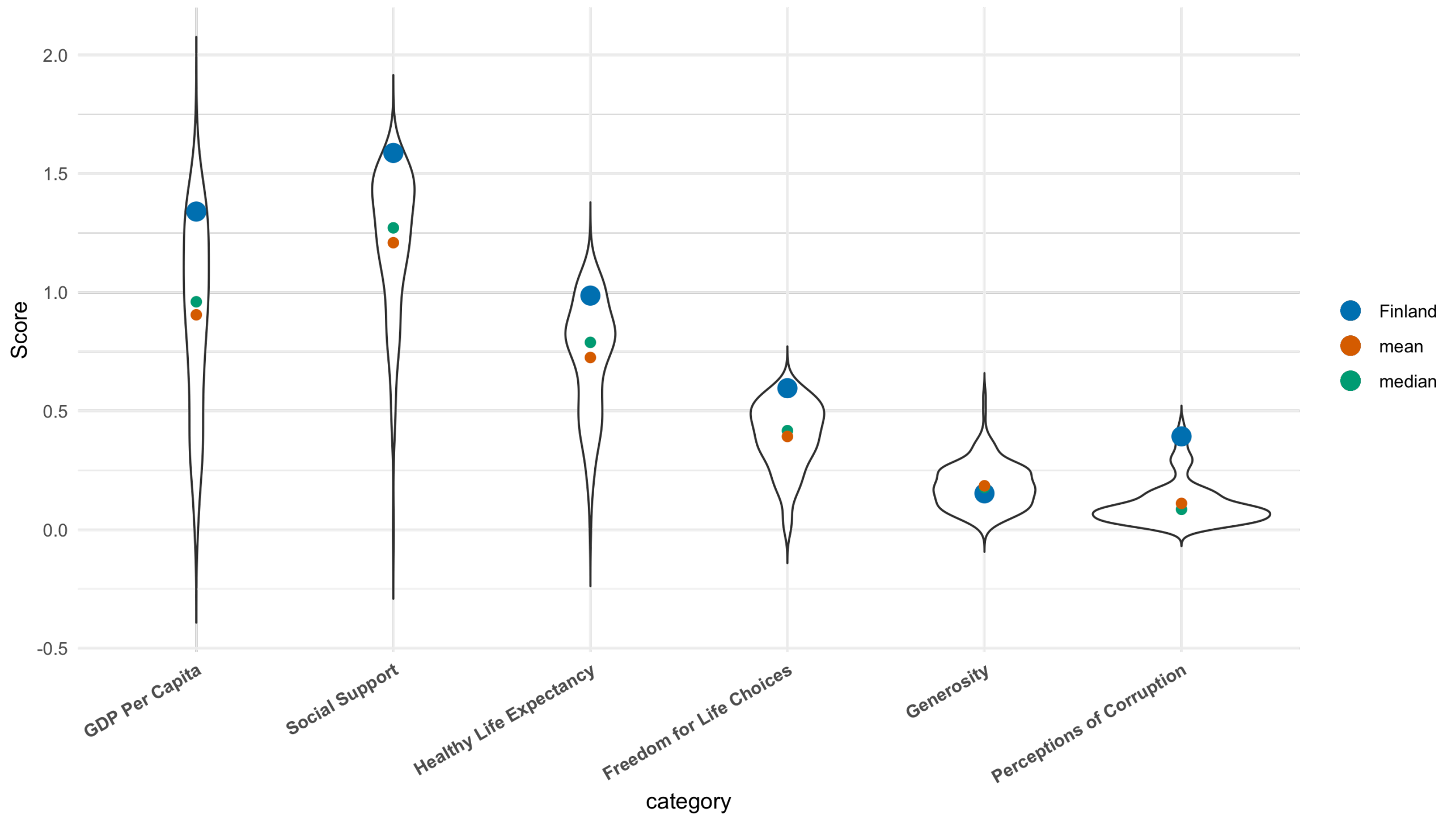**List qualities of a good visualization that we've learned so far.**

- effective use of whitespace
- clarity & accuracy
- answers a specific question
- accessible
- lessens cognitive burden on viewer
- understandable
- good color palette

- not ugly
- "less is more"
- uses fast-processing features
- includes legends & guides

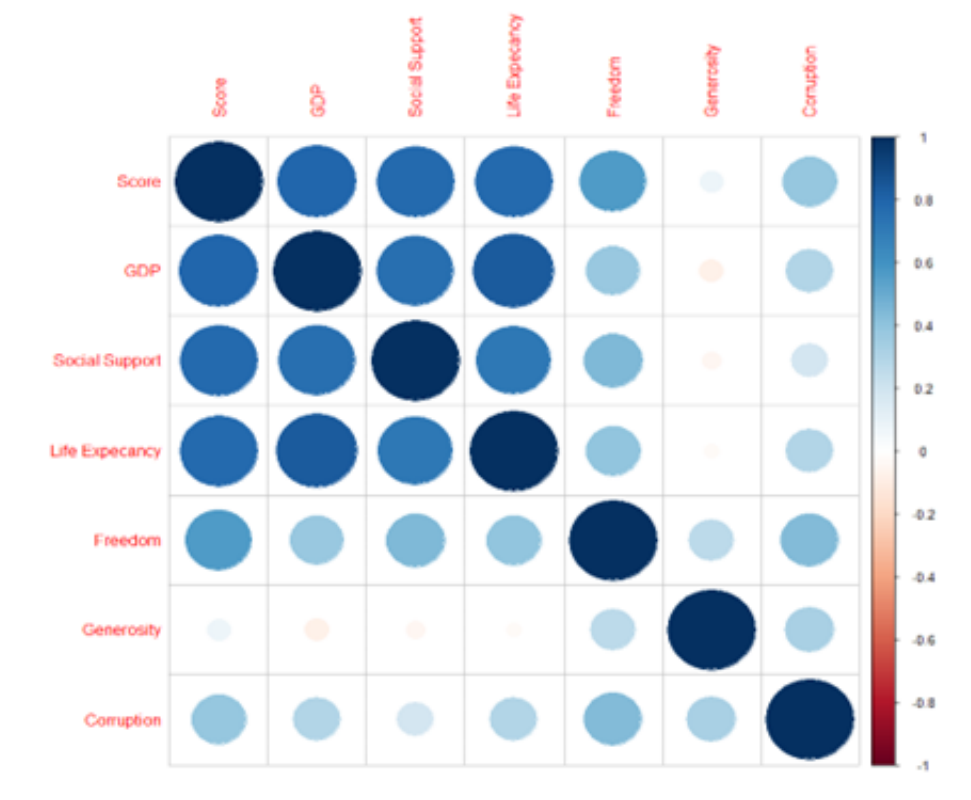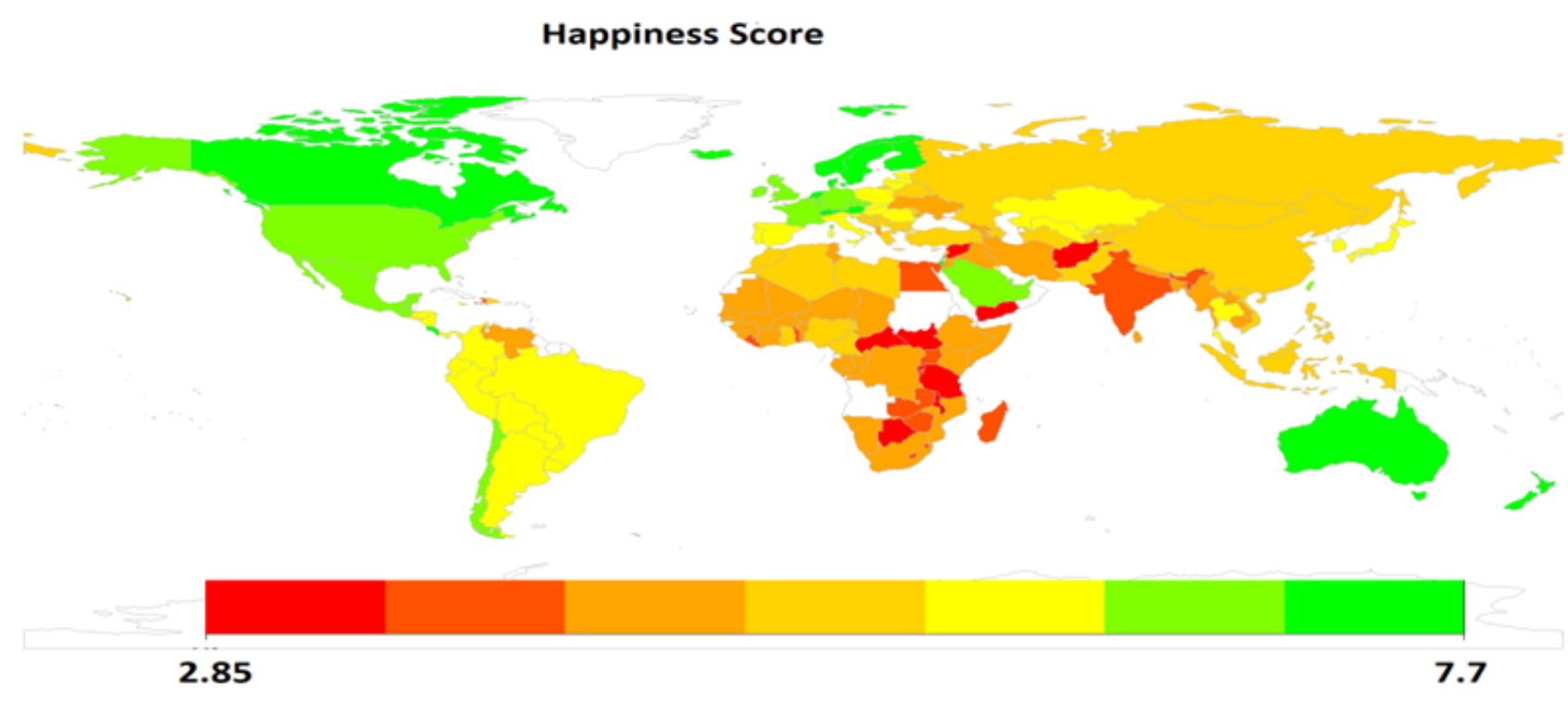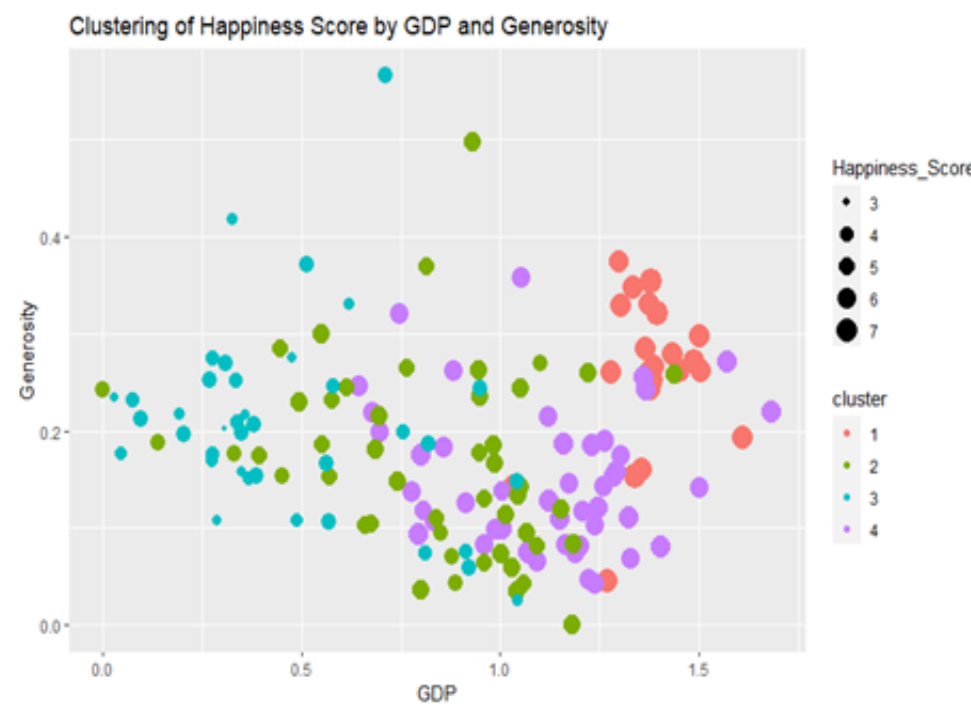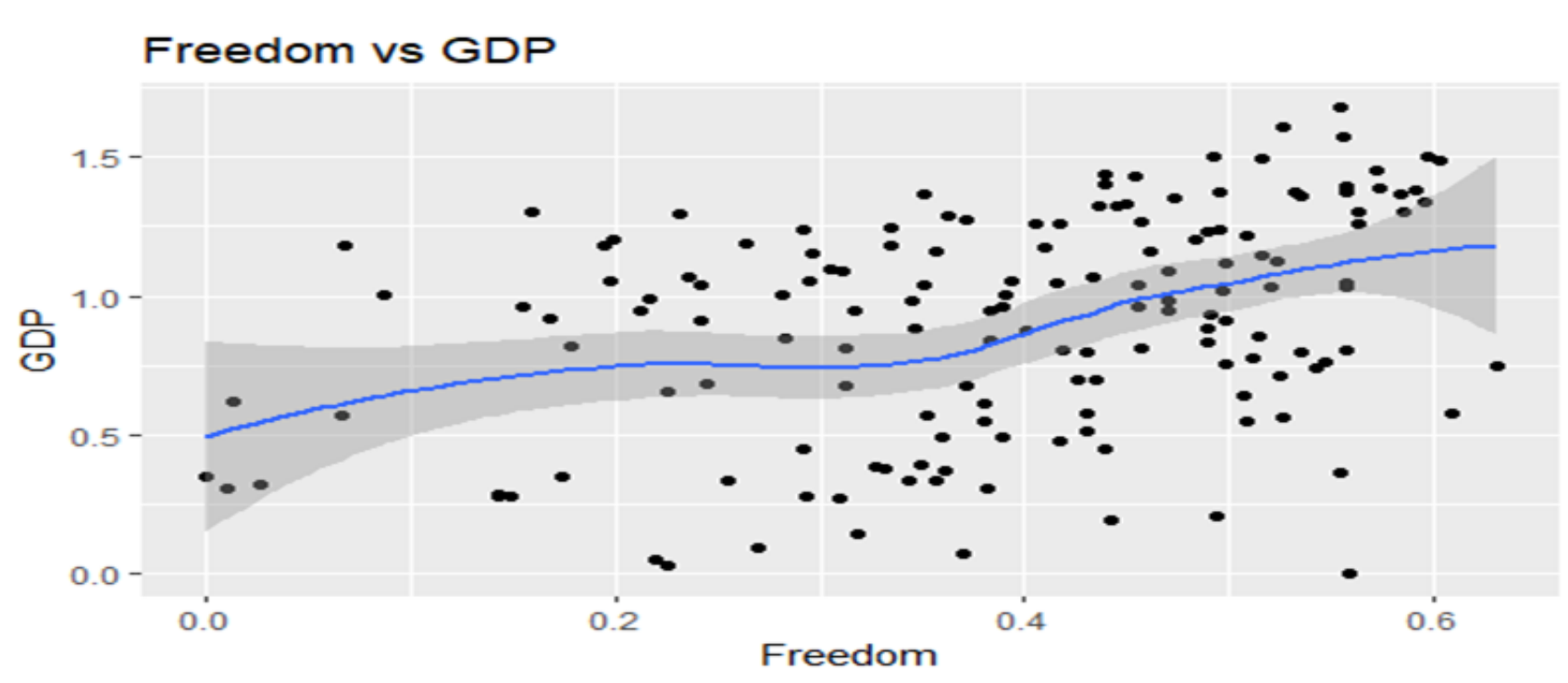**List qualities of visualizations you should avoid.**

- cluttered, too much information
- missing labels, units and other important context
- ugly
- poor color choices
- inaccessible
- poor contrast with elements
- overlapping features, bad use of whitespace
- elements that are distracting

Student 1
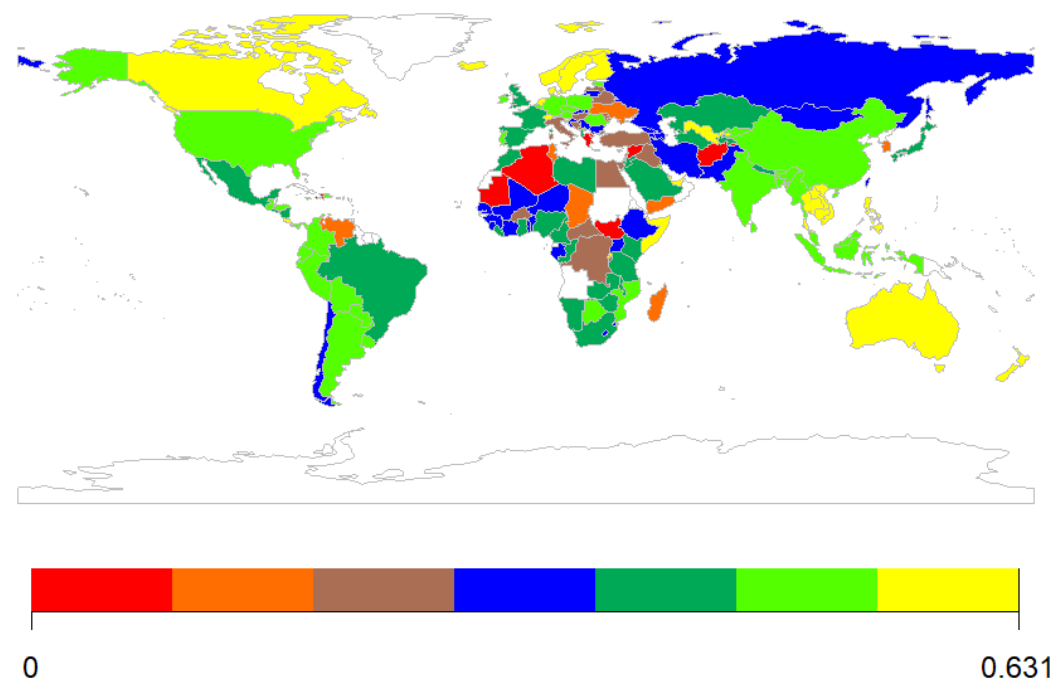

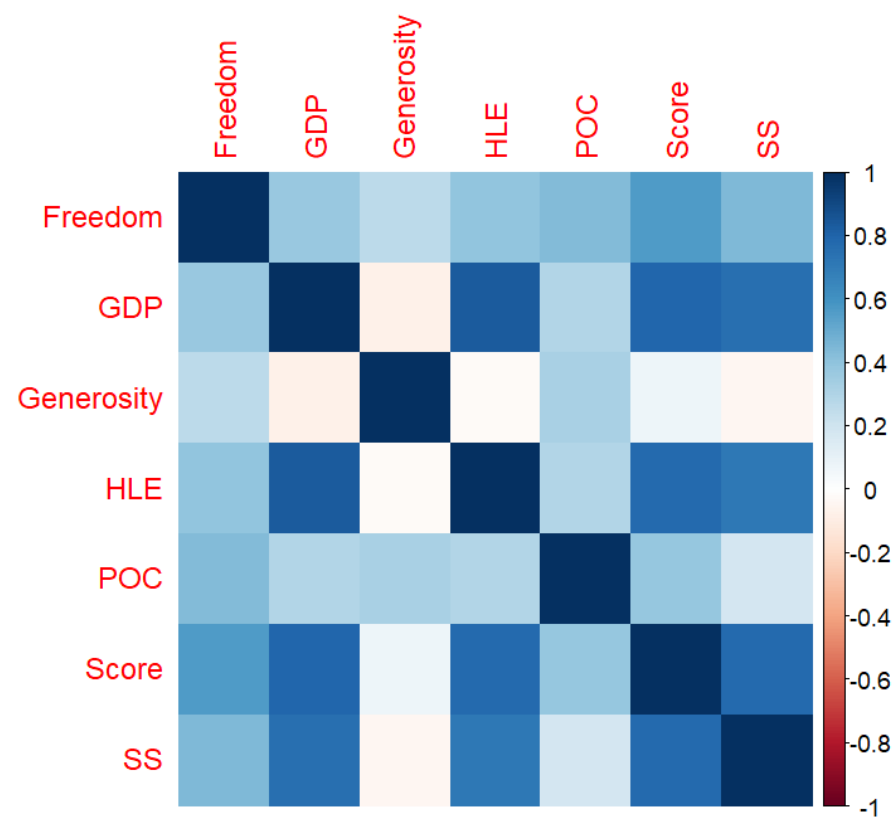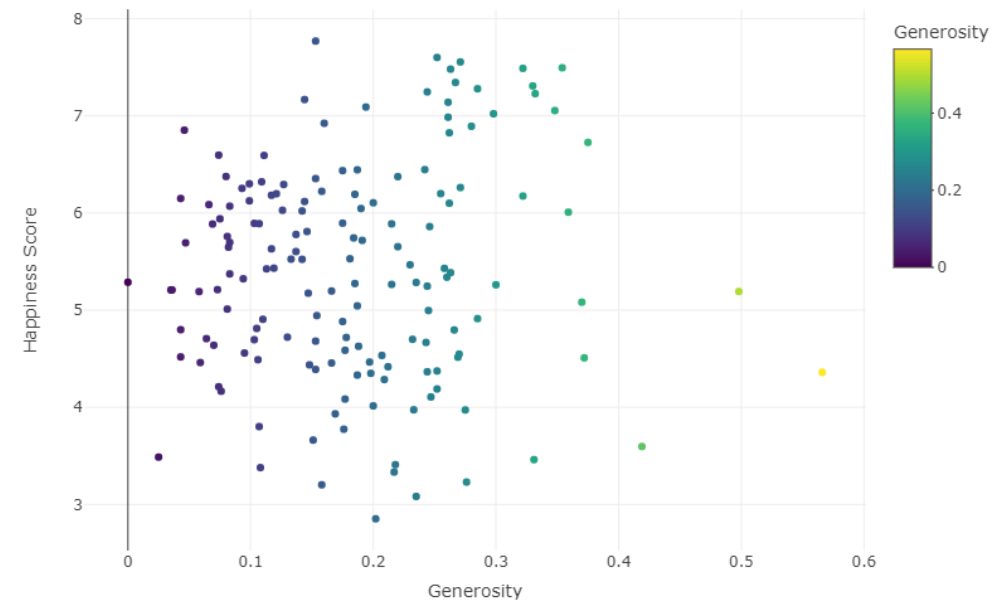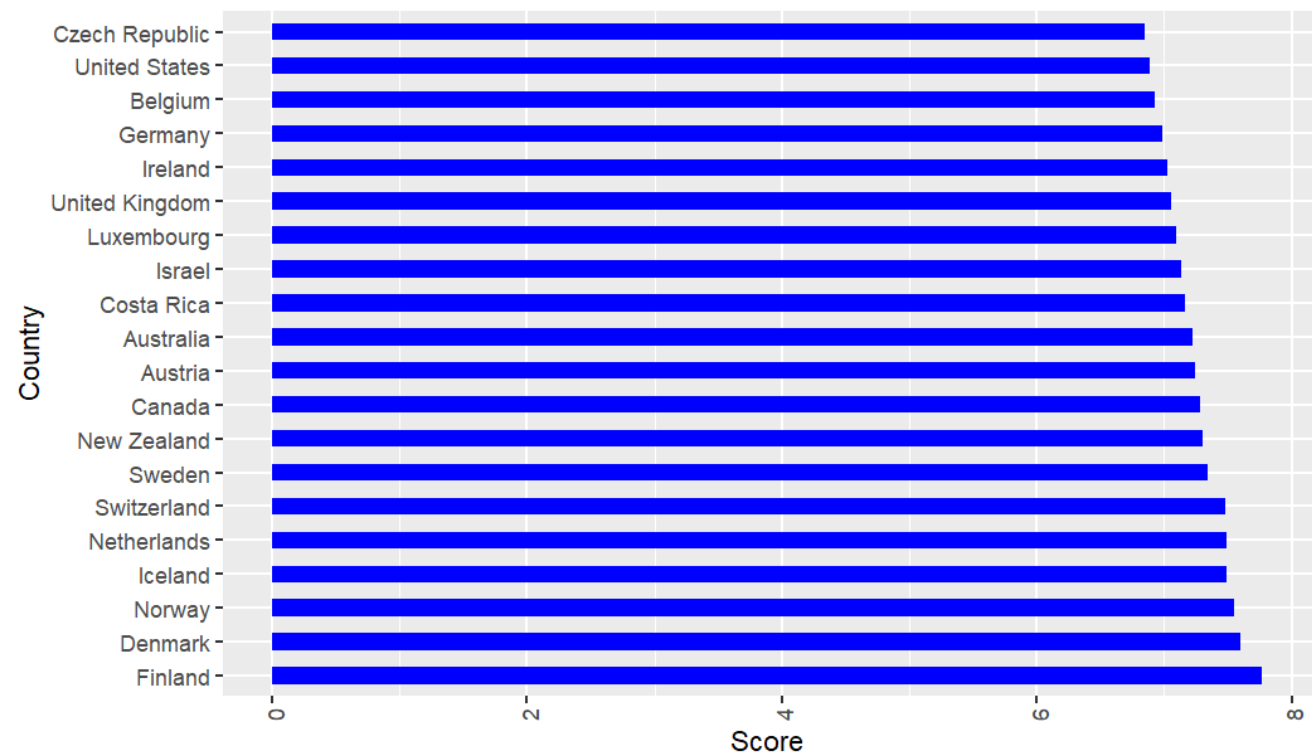What Makes Finland the Happiest Country in the World?

Student 2

Freedom vs GDP

Clustering of Happiness Score by GDP and Generosity

Happiness Score

2.85   7.7

Student 3

Freedom.to.make.life.choices

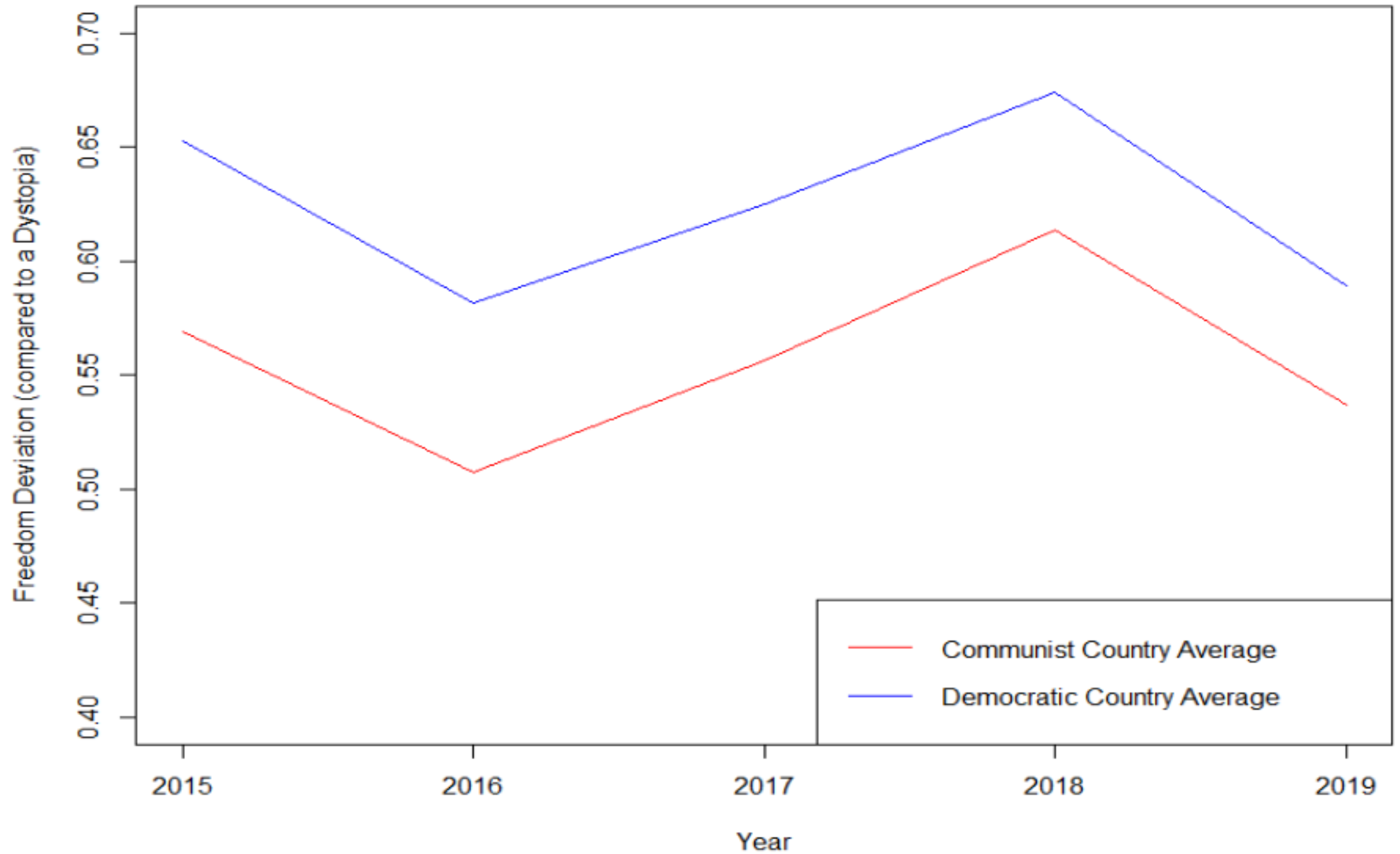0   0.631

Happiness and Generocity

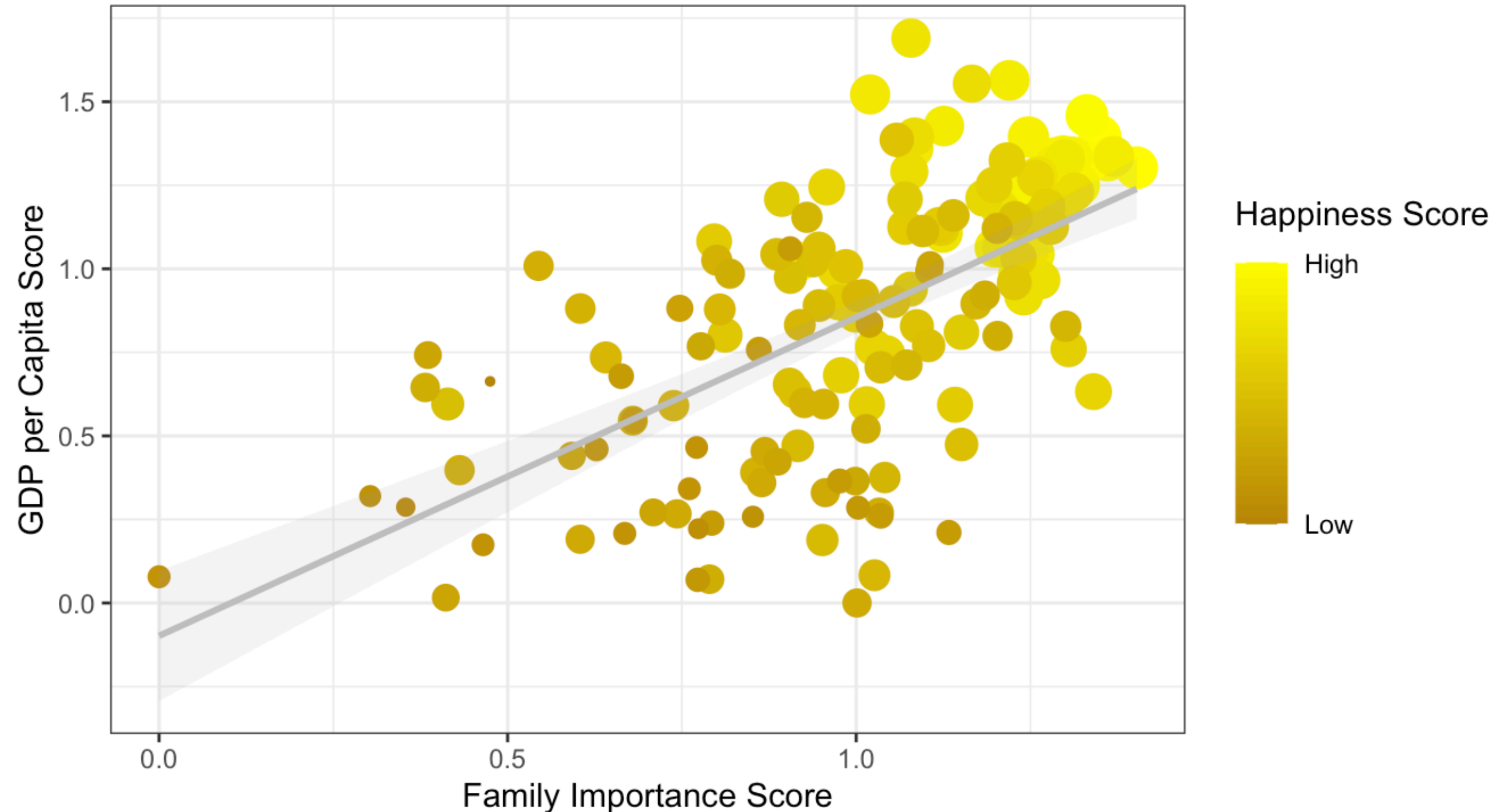**Top 20 Countries from World Happiness Report-2019**

Student 4

Freedom Score Average for Communist and Democratic Countries

Freedom Deviation (compared to a Dystopia)

Year

Communist Country Average
Democratic Country Average

Student 5

Relationship between Family, GDP per Capita, and Happiness Score

World Happiness Report 2015

Student 6

Relative Contribution of Features and Factors to the World's Happiness Score

Gallup World Poll (2015 - 2019)

| Features | Factors | Score |