

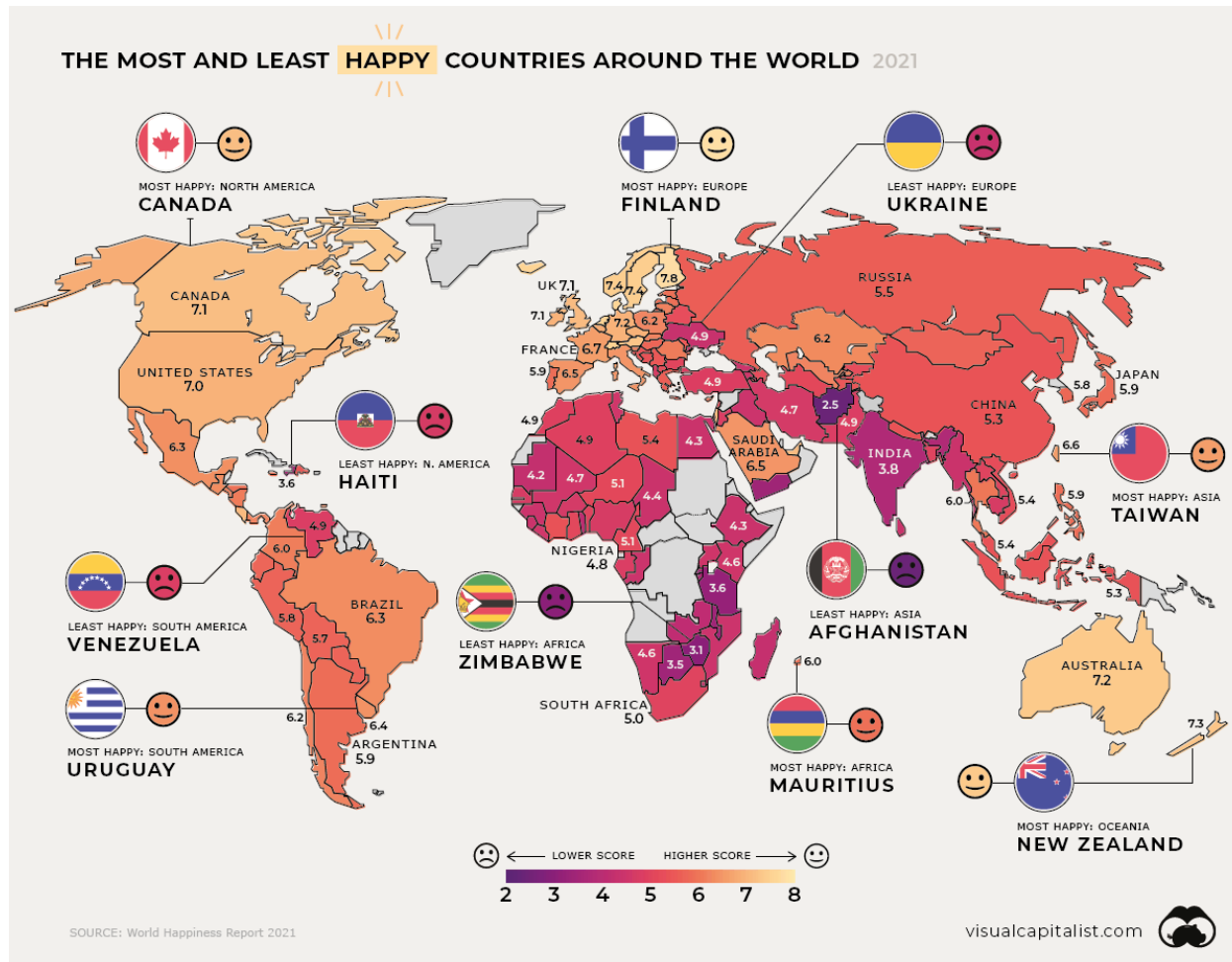
HAPPY POLICE



Group 2

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HAPPINESS AROUND THE WORLD



United States Happiness Ranking: **Sixteenth**

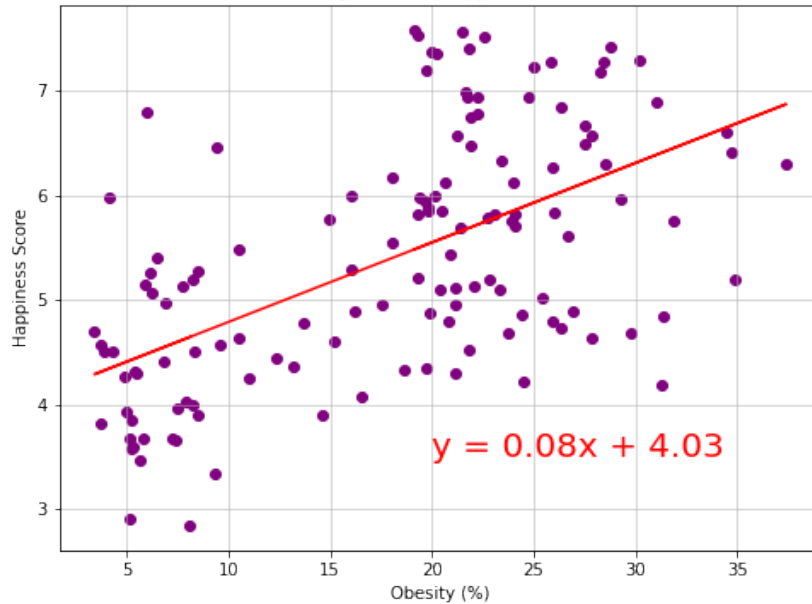
<https://www.visualcapitalist.com/mapped-global-happiness-levels-in-2021/>
<https://www.kaggle.com/datasets/mathurinache/world-happiness-report?select=2020.csv>

Obesity and Happiness Correlation - I

Null Hypothesis (H_0)	Alternative Hypothesis (H_A)
<p>There is no correlation between obesity and happiness</p> <p>$C_{H0} = 0$</p>	<p>H_{A1}: There is a negative correlation between obesity and happiness</p> <p>$C_{H-A1} < 0$</p>
	<p>H_{A2}: There is a positive correlation between obesity and happiness</p> <p>$C_{H-A2} > 0$</p>

Obesity and Happiness Correlation - II

Obesity (%) vs. Happiness Score



Correlation coefficient value is 0.57

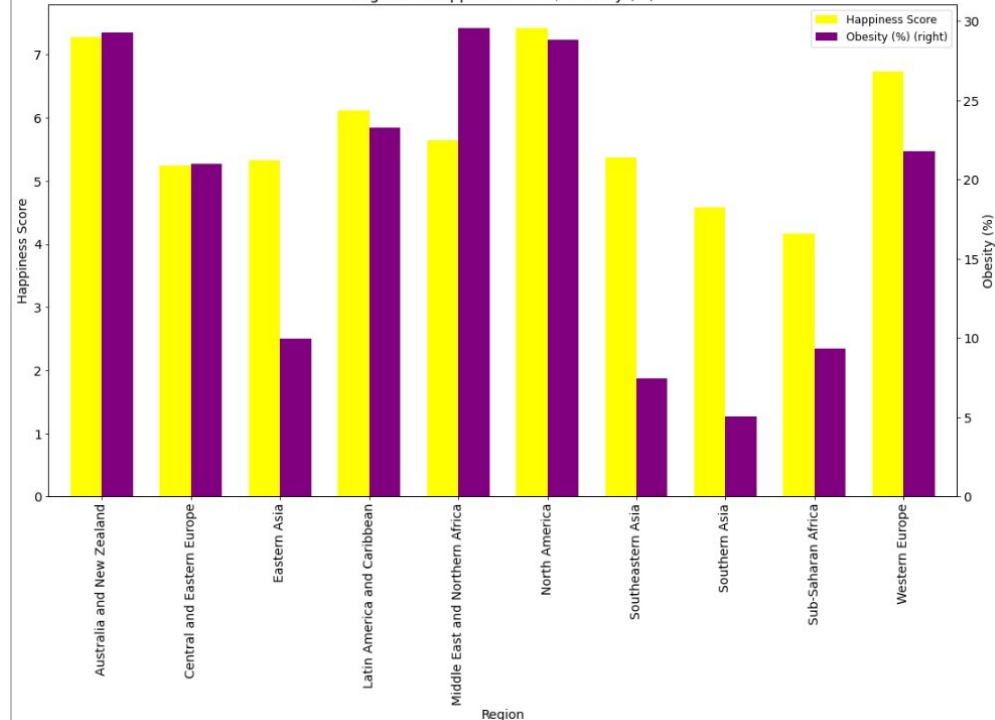
Moderate Positive Correlation

Conclusion

Reject \rightarrow null Hypothesis and alternative hypothesis H_{A1}

Accept \rightarrow alternative hypothesis H_{A2}

Region vs Happiness Score/ Obesity (%)

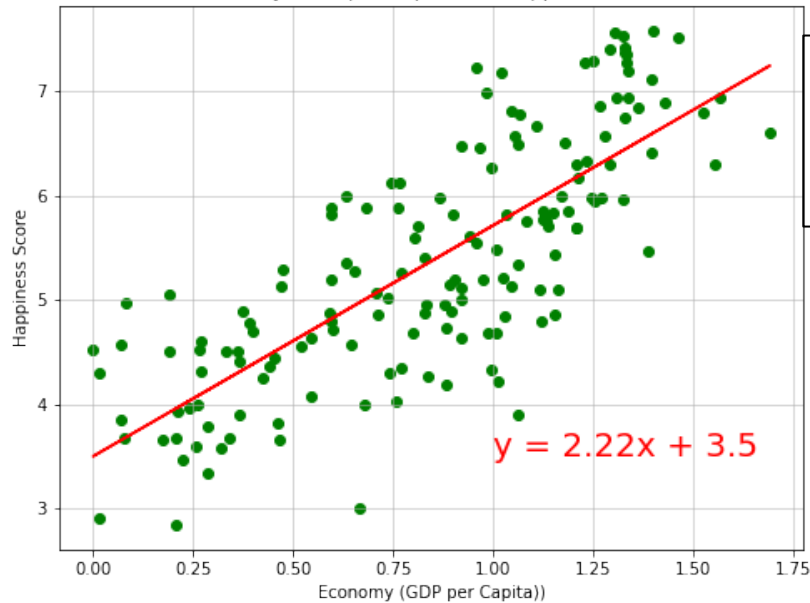


Resource:

[https://www.who.int/data/gho/data/indicators/indicator-details/GHO/prevalence-of-obesity-among-adults-bmi>=30-\(age-standardized-estimate\)-\(-\)](https://www.who.int/data/gho/data/indicators/indicator-details/GHO/prevalence-of-obesity-among-adults-bmi>=30-(age-standardized-estimate)-(-))

Economy and Happiness Correlation

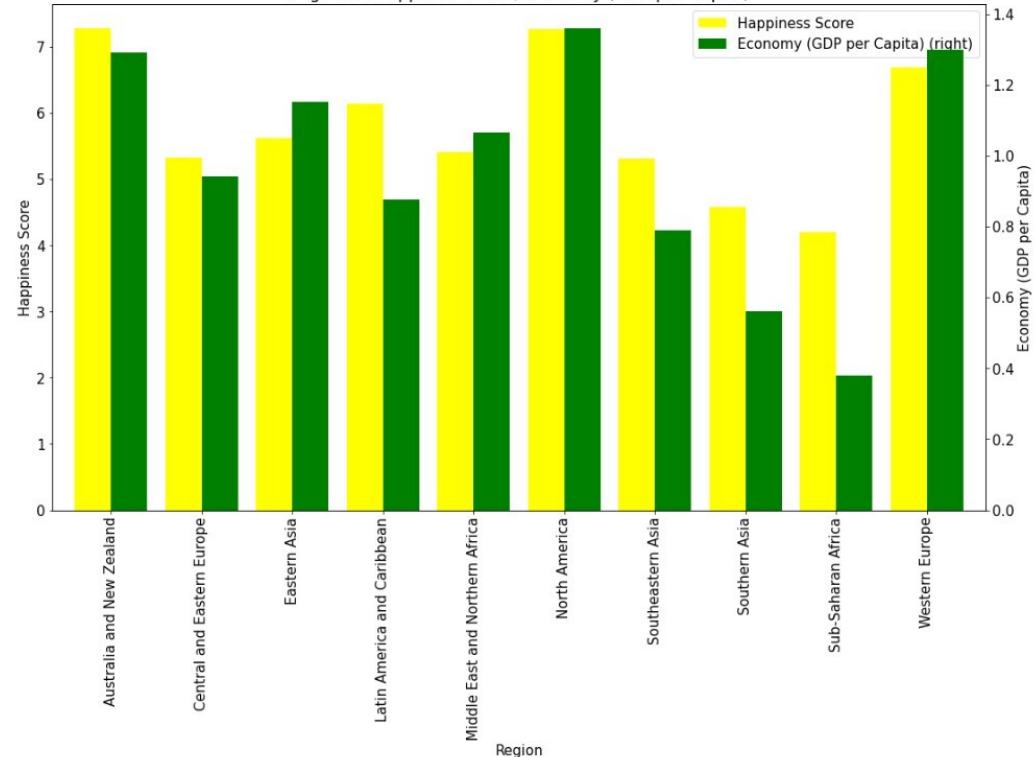
Economy (GDP per Capita) vs. Happiness Score



Correlation coefficient value is 0.78

Strong Positive Correlation

Region vs Happiness Score/ Economy (GDP per Capita)

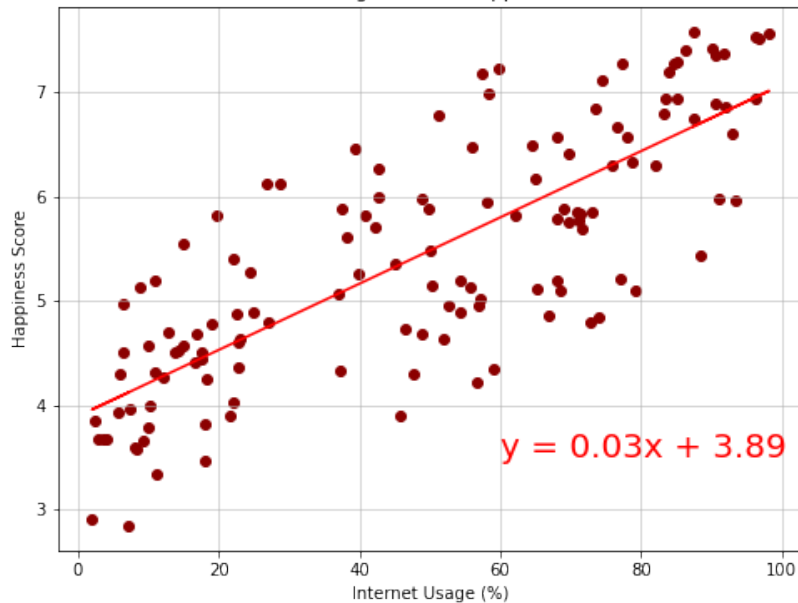


Resource:

<https://www.kaggle.com/datasets/mathurinache/world-happiness-report?select=2020.csv>

Internet and Happiness Score Correlation

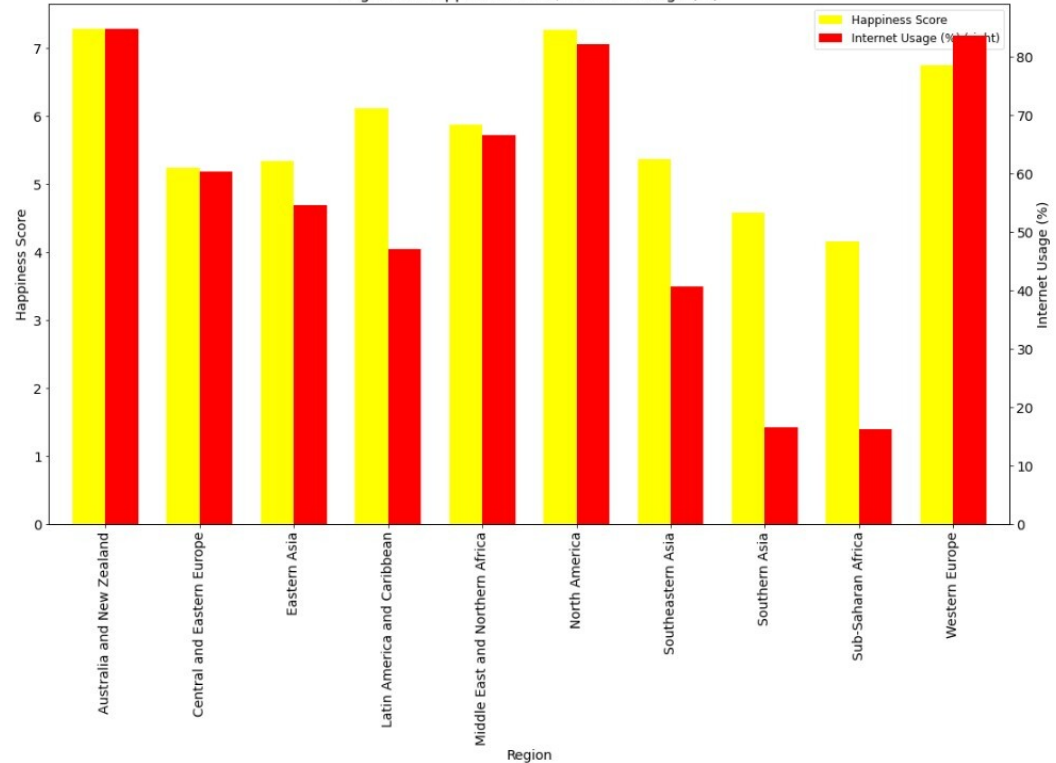
Internet Usage (%) vs. Happiness Score



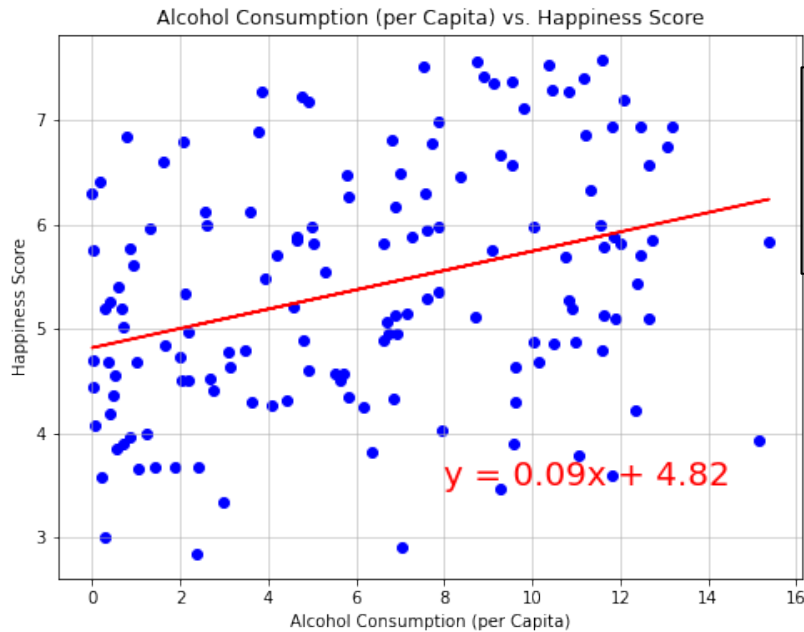
Correlation coefficient value is 0.8

High Positive Correlation

Region vs Happiness Score/ Internet Usage (%)

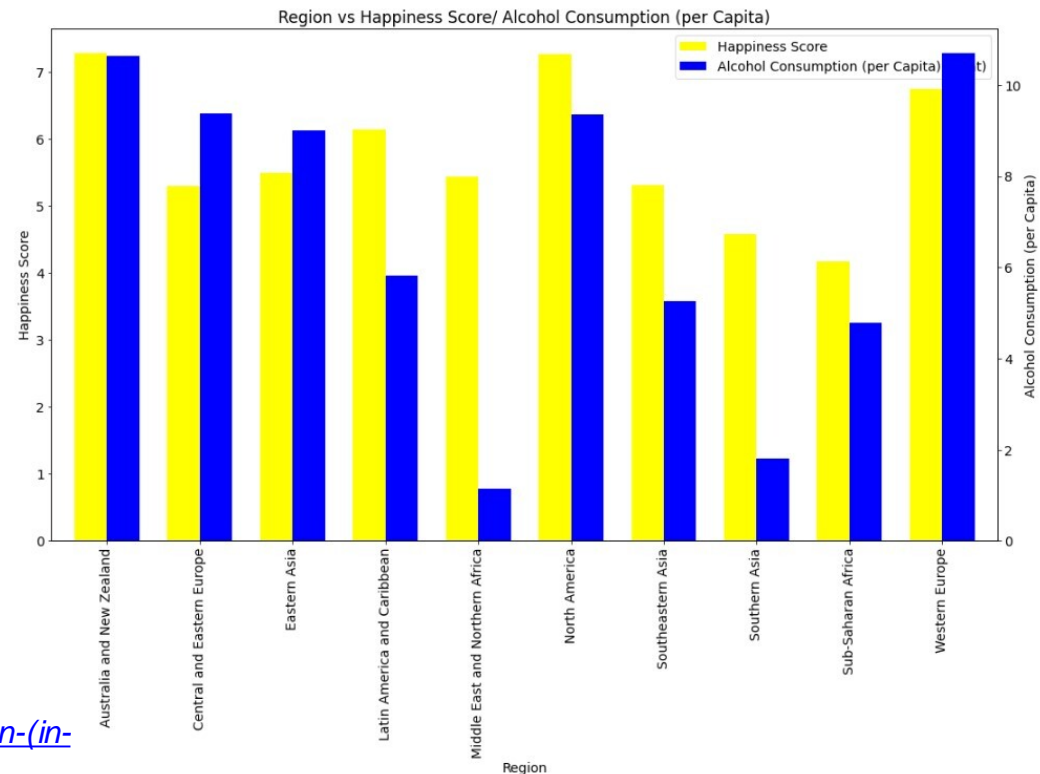


Alcohol Consumption and Happiness Correlation



Correlation coefficient value is 0.34

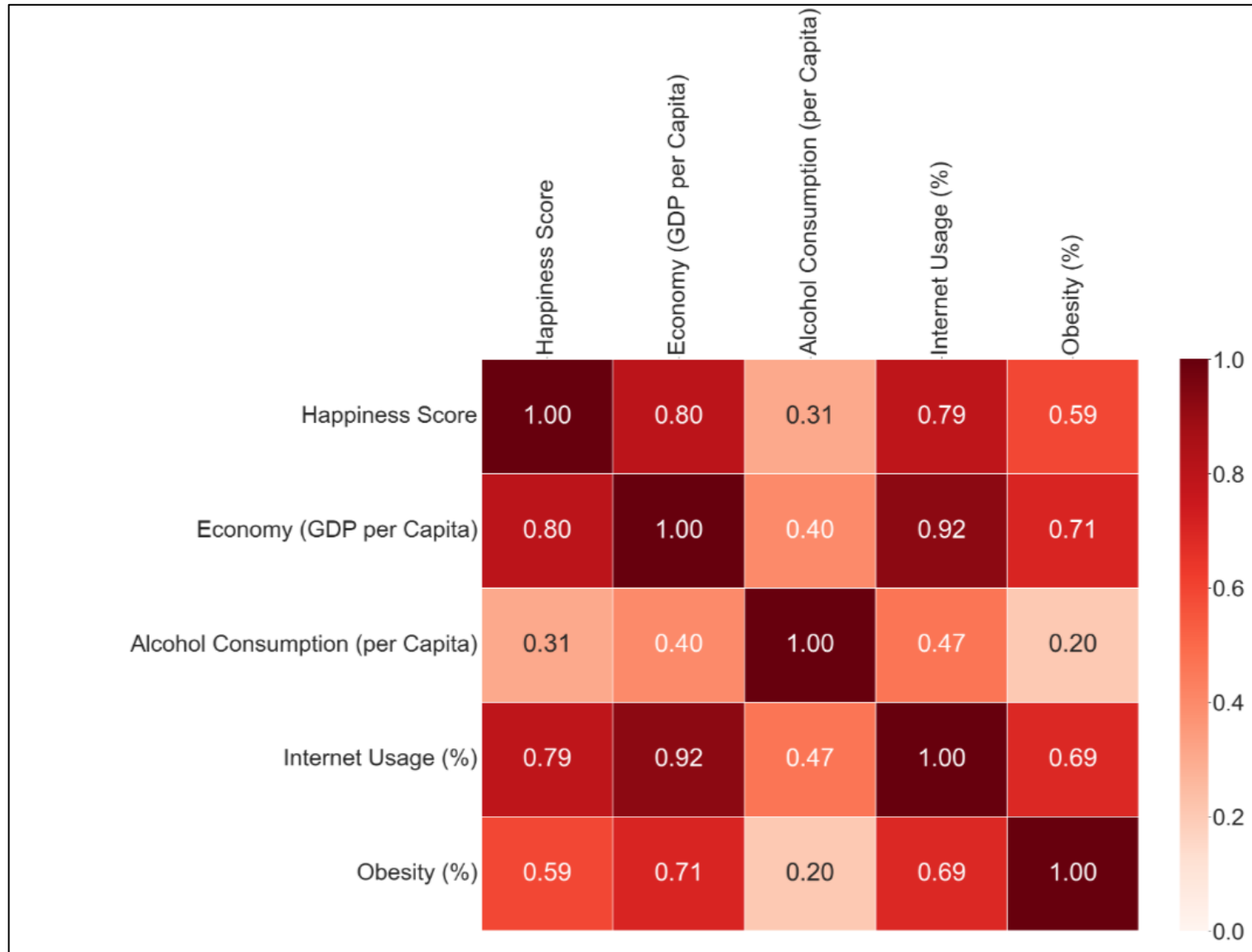
Weak Positive Correlation



Resource:

[https://www.who.int/data/gho/data/indicators/indicator-details/GHO/alcohol-total-per-capita-\(15-years\)-consumption-\(in-litres-of-pure-alcohol\)](https://www.who.int/data/gho/data/indicators/indicator-details/GHO/alcohol-total-per-capita-(15-years)-consumption-(in-litres-of-pure-alcohol))

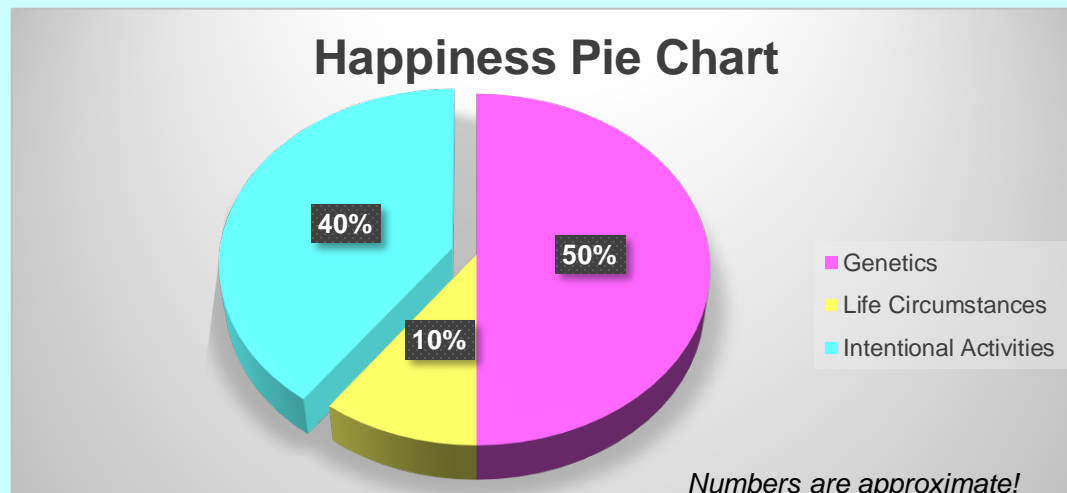
Correlation Matrix



Happiness Pie Chart



- Genetics → Happiness gene ??
 - Genetic variants associated with happiness
- Life Circumstances → Incidental activities
 - Personal experiences, Life status variables such as marital status, occupational status, job security, **income**, and health
- Intentional Activities → Most promising factor, includes behavioral activities:
 - Exercise
 - Alcohol consumption
 - Internet addiction
 - Eating habits
 - Generosity



Resource:

- <https://www.edbatista.com/2017/12/understanding-the-pie-chart-in-the-how-of-happiness.html>
- <https://worldhappiness.report/ed/2022/>