an analysis of worldwide alcoholic consumption

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Context

The earliest records of alcohol brewing date more than 8000 years ago. There is an emerging view among evolutionary biologists that early departures from hunter/gatherer society can be directly attributed to the production of fermented beverages. Interestingly, while alcohol may have contributed to the genesis of civilization, it has simultaneously been vilified as an indicator of moral failing among many religious and cultural groups. Health and safety policies surrounding alcohol abound and have the potential to influence society greatly.

The purpose of this study is to draw comparisons about global alcohol consumption from a macro perspective.

Clean and Merge

- Preprocessing the dataset involved an iterative series of tasks like removing Nans, renaming columns for consistency, deleting extraneous columns and searching/removing duplicates.
- Merge involved 12 CSVs: Used multiple outer joins
- Dataset includes:

continent, country_code, country, consumption_per_capita_(L), climate, main_export, main_industry, region, happy_score, life_expectancy, gdp_per_capita, mental_health_and_addiction (%), capital

Questions

How is alcohol consumption different across geography?

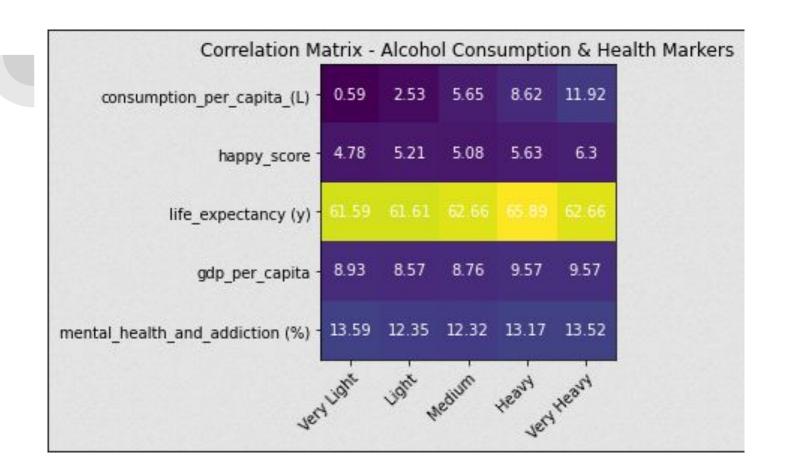
How does alcohol and wine consumption affect the following socio-economic markers:

- Happiness Score
- Life Expectancy
- GDP per capita
- Mental Health Disorders

Is wine consumption positively correlated with life expectancy?

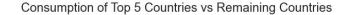
Alcohol Consumption Bins

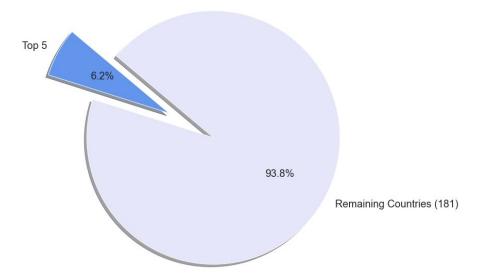
Bin Name	Amount Consumed (L)	Number of Countries
Very Light	<1	23
Light	1 - 4	40
Medium	4.1 - 7	36
Heavy	7.1 - 10	45
Very Heavy	10<	37



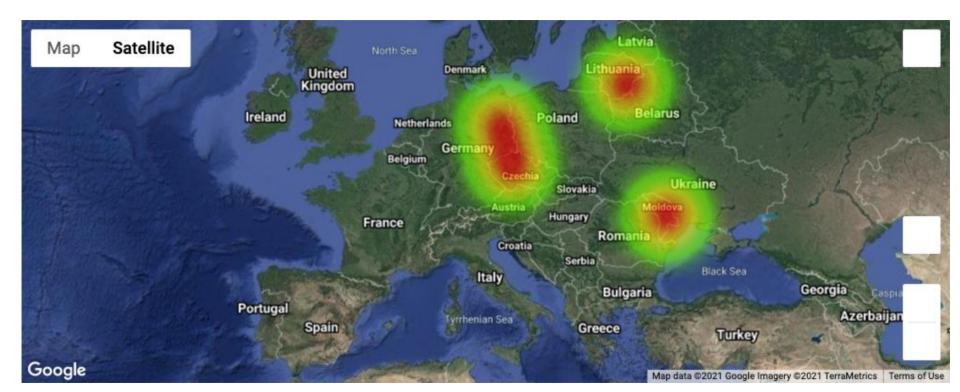
Top 5 Drunkest Countries

- 1. Moldova
- 2. Lithuania
- 3. Czechia
- 4. Germany
- 5. Nigeria





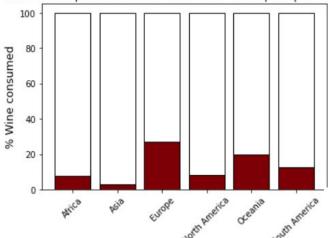
Heatmap - Consumption in Europe



5 Countries with Lowest Alcohol Consumption

- 1. Kuwait
- 2. Libya
- 3. Mauritania
- 4. Somalia
- 5. Bangladesh

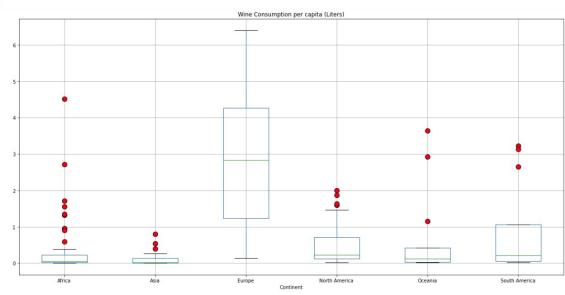




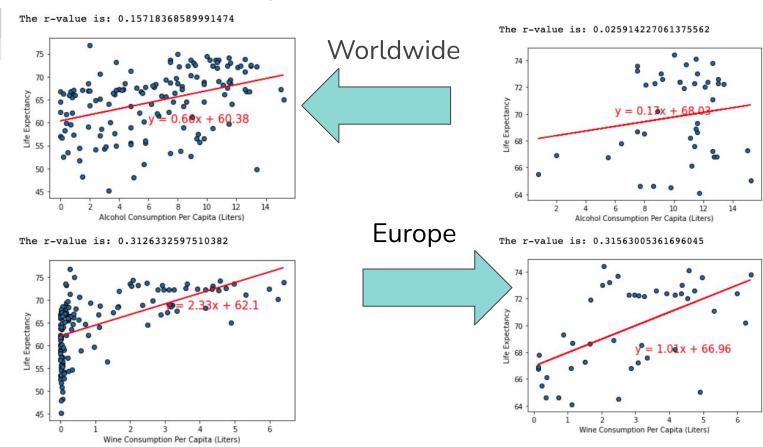
Wine Consumption in Europe VS the Rest of the World

Europe's Biggest Wine Drinkers Annual per capita wine consumption in European countries (Nov 2015)* 4 45l-50l 3 30l-45l 2 20l-30l 1 10l-20l 0 -10l Statista Source: The Wine Institute Statista Source: The Wine Institute

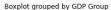
Continent

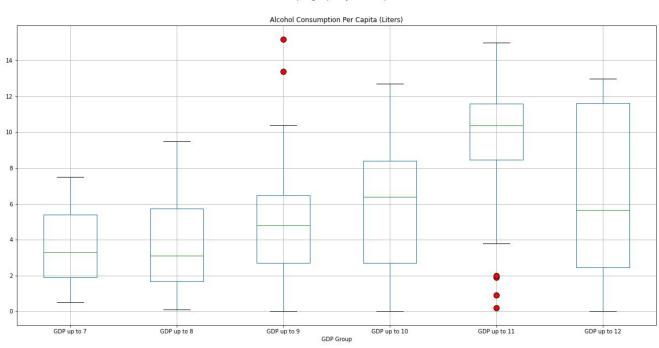


Life Expectancy and Wine Consumption



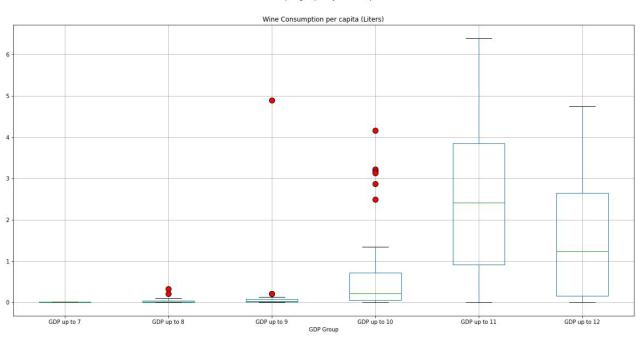
GDP Groups and Alcohol Consumption





GDP Groups and Wine Consumption

Boxplot grouped by GDP Group



GDP and Life Expectancy Worldwide

The r-value is: 0.7242337326090015

