





World Population Dataset

This Dataset contains Population data of every Country/Territory in the world

Data Card Code (78) Discussion (5)



About Dataset

Context

The current US Census Bureau world population estimate in June 2019 shows that the current global population is 7,577,130,400 people on earth, which far exceeds the world population of 7.2 billion in 2015. Our own estimate based on UN data shows the world's population surpassing 7.7 billion.

China is the most populous country in the world with a population exceeding 1.4 billion. It is one of just two countries with a population of more than 1 billion, with India being the second. As of 2018, India has a population of over 1.355 billion people, and its population growth is expected to continue through at least 2050. By the year 2030, the country of India is expected to become the most populous country in the world. This is because India's population will grow, while China is projected to see a loss in population.

The following 11 countries that are the most populous in the world each have populations exceeding 100 million. These include the United States, Indonesia, Brazil, Pakistan, Nigeria, Bangladesh, Russia, Mexico, Japan, Ethiopia, and the Philippines. Of these nations, all are expected to continue to grow except Russia and Japan, which will see their populations drop by 2030 before falling again significantly by 2050.

Many other nations have populations of at least one million, while there are also countries that have just thousands. The smallest population in the world can be found in Vatican City, where only 801 people reside.

License

Other (specified in description)

Expected update frequency

Social Science Tabular

Exploratory Data Analysis

People and Society

Found on Kaggle.com, this dataset showcases the world population by country since 1970 at varying datapoints.

BASE DATASET

Which countries show significant shifts in population growth rates? What socioeconomic factors may have influenced these changes?

Which factors to test?







POVERTY

EDUCATION

SAFETY

Before we began

- Country iso code is a universal identifier.
- Cleaned data through GeoApify to make sure sets would merge.

```
Indexing: Nauru as nr and confidence: 1
Indexing: Nepal as np and confidence: 1
Indexing: Netherlands as nl and confidence: 1
Indexing: France as fr and confidence: 0
Indexing: New Zealand as nz and confidence: 1
Indexing: Nicaragua as ni and confidence: 1
Indexing: Niger as ne and confidence: 1
Indexing: Nigeria as ng and confidence: 1
Indexing: Niue as nu and confidence: 1
Indexing: North Korea as kp and confidence: 1
Indexing: North Macedonia as mk and confidence: 1
Dropping: {'results': [], 'query': {'text': '', 'parsed': {'country': 'Northern Mariana Islands',
n'}}}
Indexing: Norway as no and confidence: 1
Indexing: Oman as om and confidence: 1
Indexing: Pakistan as pk and confidence: 1
Indexing: Palau as pw and confidence: 1
Indexing: Pakistan as pk and confidence: 1
```



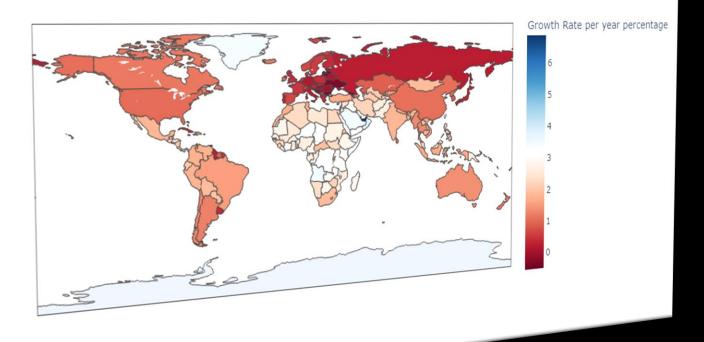
- · "U.S.A."
- "LSA"
- "United States of America"

Use API to fetch common syntax and iso code

- us
- United States

Cleaned base dataset

Growth Rate from 1970 to 2022

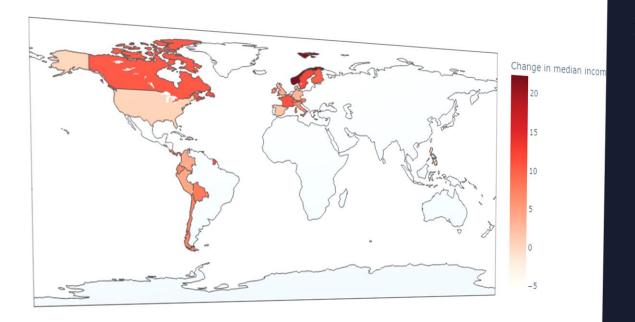


Growth rate =

(new value / original value) \land (1/N) – 1

(N = number of years)

Change in median income from 2000 to 2015



Income below which half the population lives (median income)

POVERTY

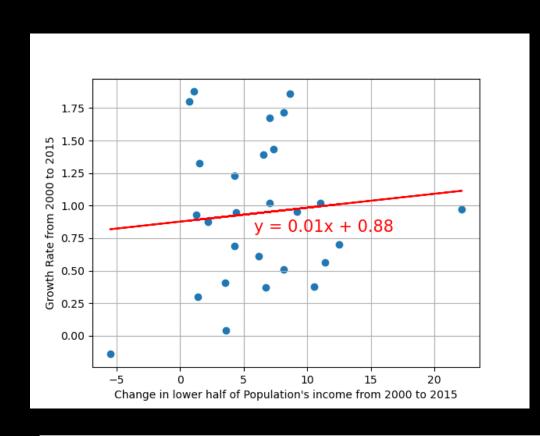
Null Hypothesis:

An improvement in a country's median income over time will have no significant impact on the growth rate of its population.

Alternative Hypothesis:

An improvement in a country's median income over time will have a significant impact on the growth rate of its population.

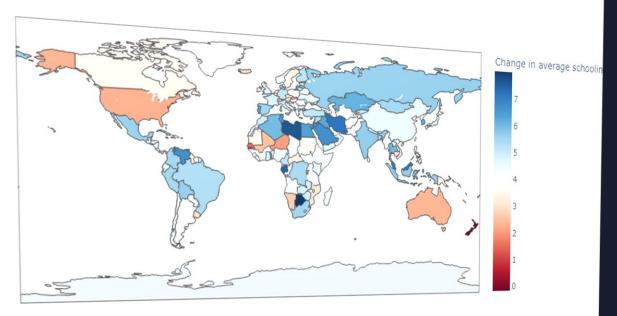
Change in median income versus growth rate



- Scatter plot has small sample size
- Correlation coefficient = 0.1
- P-value = 0.62476

Conclusion: We fail to reject the null hypothesis

Change in average schooling from 1970 to 2015



Barro-Lee average years of schooling attained (average schooling)

EDUCATION

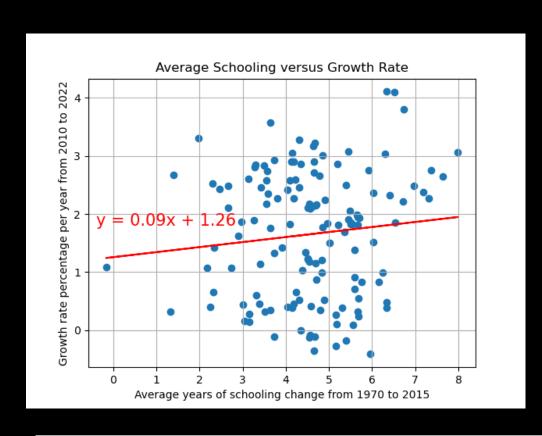
Null Hypothesis:

An improvement in a country's average schooling over time will have no significant impact on the growth rate of its population.

Alternative Hypothesis:

An improvement in a country's average schooling over time will have a significant impact on the growth rate of its population.

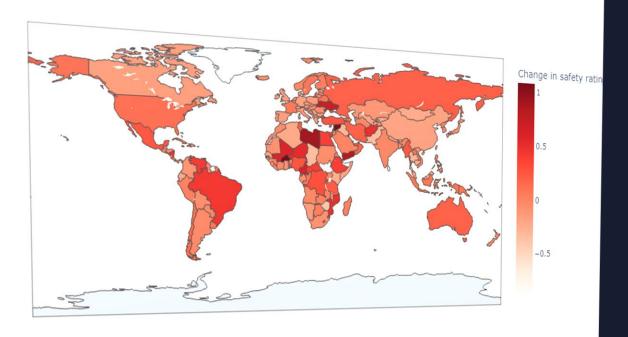
Change in average schooling versus growth rate



- Scatter plot shows spread of data
- Correlation coefficient = 0.11
- P-value = 0.20548

Conclusion: We fail to reject the null hypothesis

Change in GPI from 2010 to 2022



Global Peace Index

SAFETY

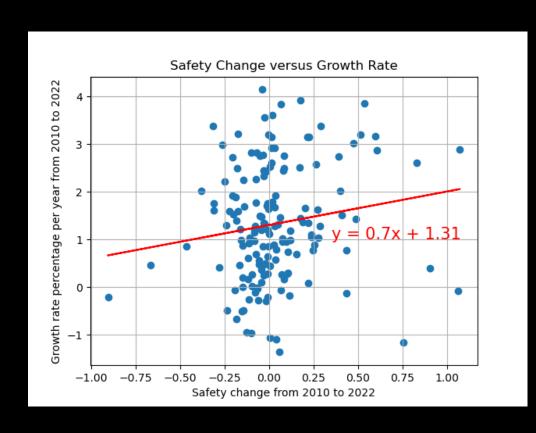
Null Hypothesis:

An improvement in a country's GPI over time will have no significant impact on the growth rate of its population.

Alternative Hypothesis:

An improvement in a country's GPI over time will have a significant impact on the growth rate of its population.

Change in GPI versus growth rate



- Scatter plot shows clustered datapoints
- Correlation coefficient = 0.15
- P-value = 0.05296

Conclusion: We can (softly) reject the null hypothesis.

*Remember: The higher the p-value, the less statistically significant the correlation.

Safety showed the most statistically significant correlation to population growth rate.

If a country's GPI improves, the rate at which its population grows will increase.

CONCLUSION