**Best Country to Live In 2024**

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# Data dictionary:

| **Column Name** | **Description** |
| --- | --- |
| **population\_2024** | Total estimated population of the country in the year 2024. |
| **population\_growthRate** | The rate at which the population of the country is growing. |
| **land\_area** | The total land area of the country, likely measured in square kilometers. |
| **country** | The name of the country. |
| **region** | The geographical region where the country is located. |
| **unMember** | Indicates whether the country is a member of the United Nations (True/False). |
| **population\_density** | The population density of the country per square kilometer. |
| **population\_densityMi** | The population density of the country per square mile. |
| **share\_borders** | The countries with which this country shares its borders. |
| **Hdi2021** | The Human Development Index (HDI) for the year 2021. |
| **Hdi2020** | The Human Development Index (HDI) for the year 2020. |
| **WorldHappiness2022** | The World Happiness Index for the year 2022. |
|  |  |

# Descriptive statistic

The descriptive statistics report aims to provide a comprehensive overview of the dataset, highlighting key insights and trends observed in the data. Through descriptive statistics, we can summarize the main characteristics of the dataset, including central tendency, variability, and distribution of variables. This report serves as a foundation for understanding the dataset's composition and informing further analysis.

| **#** | **Column** | **Count** | **Mean** | **Std** | **Min** | **25%** | **50%** | **75%** | **Max** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1 | population\_2024 | 141 | 54,221,570 | 174,936,300 | 377,689 | 5,494,963 | 11,715,770 | 39,107,050 | 1,441,720,000 |
| 2 | population\_growthRate | 141 | 0.9327% | 1.2112% | -3.087% | 0.118% | 0.892% | 1.823% | 3.809% |
| 3 | land\_area | 141 | 873,430.6 km² | 2,200,180 km² | 316 km² | 64,559 km² | 238,391 km² | 652,230 km² | 17,098,242 km² |
| 4 | population\_density | 141 | 272.74/km² | 945.62/km² | 2.24/km² | 37.37/km² | 87.14/km² | 170.27/km² | 8,429.96/km² |
| 5 | population\_densityMi | 141 | 706.40/mi² | 2,449.16/mi² | 5.81/mi² | 96.78/mi² | 225.68/mi² | 440.99/mi² | 21,833.59/mi² |
| 6 | Hdi2021 | 141 | 0.7372 | 0.1538 | 0.394 | 0.607 | 0.754 | 0.875 | 0.962 |
| 7 | Hdi2020 | 141 | 0.7376 | 0.1523 | 0.397 | 0.610 | 0.756 | 0.871 | 0.959 |
| 8 | WorldHappiness2022 | 141 | 5.5426 | 1.1052 | 2.404 | 4.744 | 5.578 | 6.293 | 7.821 |

# Objective

Determine the Best Country to Live According to Human Development Index (HDI) by Analyzing Key Dataset Factors

To achieve this objective, we will explore the following questions and patterns within the dataset:

Key Columns:

Population in 2024

Population Growth Rate

Land Area

Hdi2021

Hdi2020

WorldHappiness2022

Population Density

Questions to Address:

Identify the country with the highest population.

Compare countries based on their HDI and population.

Identify the country with the highest HDI.

Determine countries experiencing the most significant development in recent years.

Identify countries with the highest and lowest population growth rates.

Identify countries with the index and populated

Top countries by the world Happiness Index

### The country with the most population

india

### The country with lowest population

Iceland

### The country with the highest Hdi2020

Norway

### The country with the highest Hdi2021

Switzerland

### The country with the highest index and populated

United states

### Which countries have the highest and lowest population growth rates?

Nigeria highest

Moldova lowest

### Best country to live by World Happiness Index

Finland

# Analayzing the countries for determine which option can be the best for live

## India is the country most populated, can be the best country to live?

Population in 2024: India's estimated population in 2024 is approximately 1.44 billion, making it one of the most populous countries in the world.

Population Growth Rate: The population growth rate is 0.916%, indicating a steady increase in population.

Land Area: India has a total land area of about 3,287,590 square kilometers.

Region: India is located in Asia.

UN Membership: India is a member of the United Nations.

Population Density: The population density is approximately 484.91 people per square kilometer, which is quite high, indicating a densely populated country.

Neighboring Countries: India shares its borders with Afghanistan (AFG), Bangladesh (BGD), Bhutan (BTN), Myanmar (MMR), China (CHN), Nepal (NPL), Pakistan (PAK), and Sri Lanka (LKA).

Human Development Index (HDI): The HDI for India in 2021 was 0.633, slightly lower than its 2020 HDI of 0.642. This index measures average achievement in key dimensions of human development, including health, education, and standard of living.

World Happiness Index (2022): India's score on the World Happiness Index in 2022 was 3.777, which is used to measure the overall happiness and well-being of the population.

## Iceland is the country lowest populated, can be the best country to live?

Population in 2024: Iceland's estimated population in 2024 is approximately 377,689, which is relatively small compared to many other countries.

Population Growth Rate: The population growth rate is 0.632%, indicating a moderate growth in population.

Land Area: Iceland has a total land area of about 103,000 square kilometers.

Region: Iceland is located in Europe.

UN Membership: Iceland is a member of the United Nations.

Population Density: The population density is approximately 3.75 people per square kilometer, which is quite low, indicating a sparsely populated country.

Neighboring Countries: The dataset does not list any neighboring countries for Iceland. This is likely due to Iceland being an island nation with no land borders.

Human Development Index (HDI): The HDI for Iceland in 2021 was 0.959, which is very high, indicating a very high standard of living and human development. The HDI was 0.957 in 2020.

World Happiness Index (2022): Iceland's score on the World Happiness Index in 2022 was 7.557, which is quite high, indicating a high level of happiness and well-being among its population.

## Norway is the country with the highest Hdi2020, can be the best country to live?

Population in 2024: Norway's estimated population in 2024 is approximately 5.51 million, which is moderate in size.

Population Growth Rate: The population growth rate is 0.733%, indicating a moderate increase in population.

Land Area: Norway has a total land area of about 323,802 square kilometers.

Region: Norway is located in Europe.

UN Membership: Norway is a member of the United Nations.

Population Density: The population density is approximately 15.14 people per square kilometer, suggesting that Norway is relatively sparsely populated.

Neighboring Countries: Norway shares its borders with Finland (FIN), Sweden (SWE), and Russia (RUS).

Human Development Index (HDI): The HDI for Norway in 2021 was 0.961, which is extremely high, indicating a very high standard of living and human development. The HDI was 0.959 in 2020.

World Happiness Index (2022): Norway's score on the World Happiness Index in 2022 was 7.365, which is quite high, reflecting a high level of happiness and well-being among its population.

## Switzerland is the country with the highest Hdi2021, can be the best country to live?

Population in 2024: Switzerland's estimated population in 2024 is approximately 8.85 million.

Population Growth Rate: The population growth rate is 0.623%, indicating a moderate increase in population.

Land Area: Switzerland has a total land area of about 41,284 square kilometers.

Region: Switzerland is located in Europe.

UN Membership: Switzerland is a member of the United Nations.

Population Density: The population density is approximately 224 people per square kilometer, which is relatively high, indicating a moderately densely populated country.

Neighboring Countries: Switzerland shares its borders with Austria (AUT), France (FRA), Italy (ITA), Liechtenstein (LIE), and Germany (DEU).

Human Development Index (HDI): The HDI for Switzerland in 2021 was 0.962, which is extremely high, indicating a very high standard of living and human development. The HDI was 0.956 in 2020.

World Happiness Index (2022): Switzerland's score on the World Happiness Index in 2022 was 7.512, which is quite high, reflecting a high level of happiness and well-being among its population.

## United states is the country with the the highest index and populated, can be the best country to live?

Population in 2024: The estimated population of the United States in 2024 is approximately 341.8 million.

Population Growth Rate: The population growth rate is 0.535%, indicating a steady increase in population.

Land Area: The United States has a total land area of about 9,372,610 square kilometers, making it one of the largest countries in the world by land area.

Region: The United States is located in North America.

UN Membership: The United States is a member of the United Nations.

Population Density: The population density is approximately 37.37 people per square kilometer, which is relatively low, indicating that the country has large areas with low population density.

Neighboring Countries: The United States shares its borders with Canada (CAN) and Mexico (MEX).

Human Development Index (HDI): The HDI for the United States in 2021 was 0.921, which is high, indicating a high standard of living and human development. The HDI was 0.920 in 2020.

World Happiness Index (2022): The United States' score on the World Happiness Index in 2022 was 6.977, which is relatively high, reflecting a good level of happiness and well-being among its population.

## Finland is the country with the highest World Happiness Index, can be the best country to live?

Population in 2024: Finland's estimated population in 2024 is approximately 5.55 million.

Population Growth Rate: The population growth rate is 0.08%, indicating a very slow increase in population.

Land Area: Finland has a total land area of about 338,424 square kilometers.

Region: Finland is located in Europe.

UN Membership: Finland is a member of the United Nations.

Population Density: The population density is approximately 18.26 people per square kilometer, suggesting that Finland is relatively sparsely populated.

Neighboring Countries: Finland shares its borders with Norway (NOR), Sweden (SWE), and Russia (RUS).

Human Development Index (HDI): The HDI for Finland in 2021 was 0.940, which is very high, indicating a high standard of living and human development. The HDI was 0.938 in 2020.

World Happiness Index (2022): Finland's score on the World Happiness Index in 2022 was 7.821, which is quite high, reflecting a high level of happiness and well-being among its population.

## Critical Decision:

# To identify the best country to live in, numerous factors must be considered. Countries like Switzerland, Norway, and Finland consistently rank high in terms of Human Development Index (HDI) and the World Happiness Index, indicating they are among the top choices according to these metrics. However, determining the optimal choice varies greatly based on individual preferences and priorities.

# While these countries excel in quality of life measures, it's worth noting that factors such as population density and land area also play a significant role. For instance, while Switzerland, Norway, and Finland may offer tranquility and high indices, they are not densely populated. On the other hand, if one seeks a balance between a high index and a larger population, the United States could be a favorable option.

# Ultimately, the best country for an individual hinges on additional considerations such as location, climate, language, and other data not encompassed within the current dataset. Therefore, the determination of the ideal living destination is contingent upon a comprehensive evaluation of multiple factors tailored to individual needs and preferences.