### World Bank Data

### In 2006, Hans Rosling gave a TED talk titled [The best stats you've ever seen](https://www.ted.com/talks/hans_rosling_shows_the_best_stats_you_ve_ever_seen).(Must watch this video before working on the project). At the beginning of the talk, he showed an animation he made to debunk some misconceptions about today's world. I enjoyed seeing this visualisation and I want you to reproduce it with the tools you know (i.e. Python, Pandas, Numpy, Seaborn and Matplotlib).

### Dataset Information

### Life expectancy at birth: The number of years a newborn would live if the patterns of mortality at the time of birth remain the same throughout his life.

### Fertility rate: Number of children a woman would give birth to during her childbearing years.

### Country population: Total number of residents regardless of legal status or citizenship (midyear estimates)

### Hans Rosling built this animation, after testing his students on global health, he realised that they still thought that the world was divided in two:

### The Western world: low fertility rate and high life expectancy

### The third world: high fertility rate and low life expectancy

### There will be some differences between the original visualisation and the one you are going to build:

### More data: The talk was made in 2006 with data from 1962 to 2003. We will use data from 1960 to 2016.

### Regions: The original visualisation has five regions. We will keep the regions from the source data (i.e. seven regions).

### Colours. We can't get the exact colours of the regions. Feel free to use your colour mapping.

### In this task, you have to build the same animated graph as you watched in the video. Before you start with the visualization you have to perform the following steps:

### Load Data

### Data Overview

### Handle Missing Values

### Data Types

### Merge DataFrames (If required for any visualization)

### So far we have performed the following steps on a few datasets so we are not mentioning minute details for the above task.

### In case you want to perform basic visualizations apart from the animated one, consider the below pointers:

### Population Trends (Years vs Population)(Line Graph)

### Fertility rate distribution

### Life expectancy variation

### Correlation Analysis

### Regional Analysis

### This project might be challenging so I would recommend you seek feedback from your peers and be active on the discord channel to help each other out and build this.

### Hint: 1. Load all three datasets

### 2. Data preprocessing on each dataset

### 3. Use the Pandas dataset merge method (DataFrame.merge) to combine the 3 datasets

### 4. Create a list of continents with their counties and then use if else to create a new column for each continent.

### I have uploaded one more dataset `Metadata\_Country` In this dataset you will find the column Region along with the Country code. You don’t have to do the manual work to identify the Region.