



Upgrade

Open in app



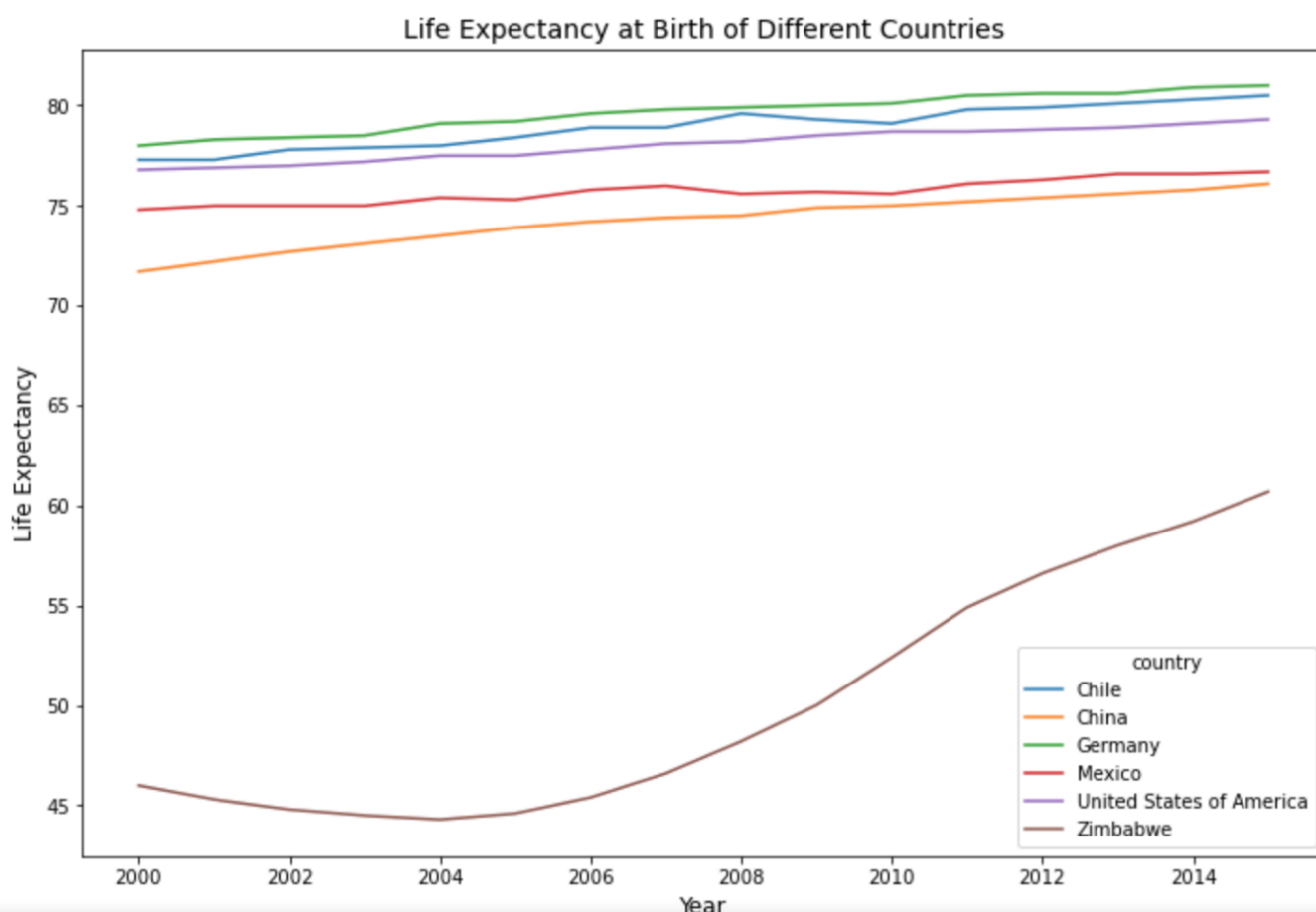
Nick Budd

Mar 3 · 3 min read · [Listen](#)

Life Expectancy and GDP of Different Countries

Is there a strong correlation between the economic output of a country and the life expectancy of those living there? To determine this we've grabbed fifteen years of data on six different nations! Let's dive in...

Life Expectancy has been on a gradual rise since the beginning of the 21st century. Looking at most nations you will see the upward trajectory from left to right on the line graph below. This is something you could expect from most countries even outside of these six nations.

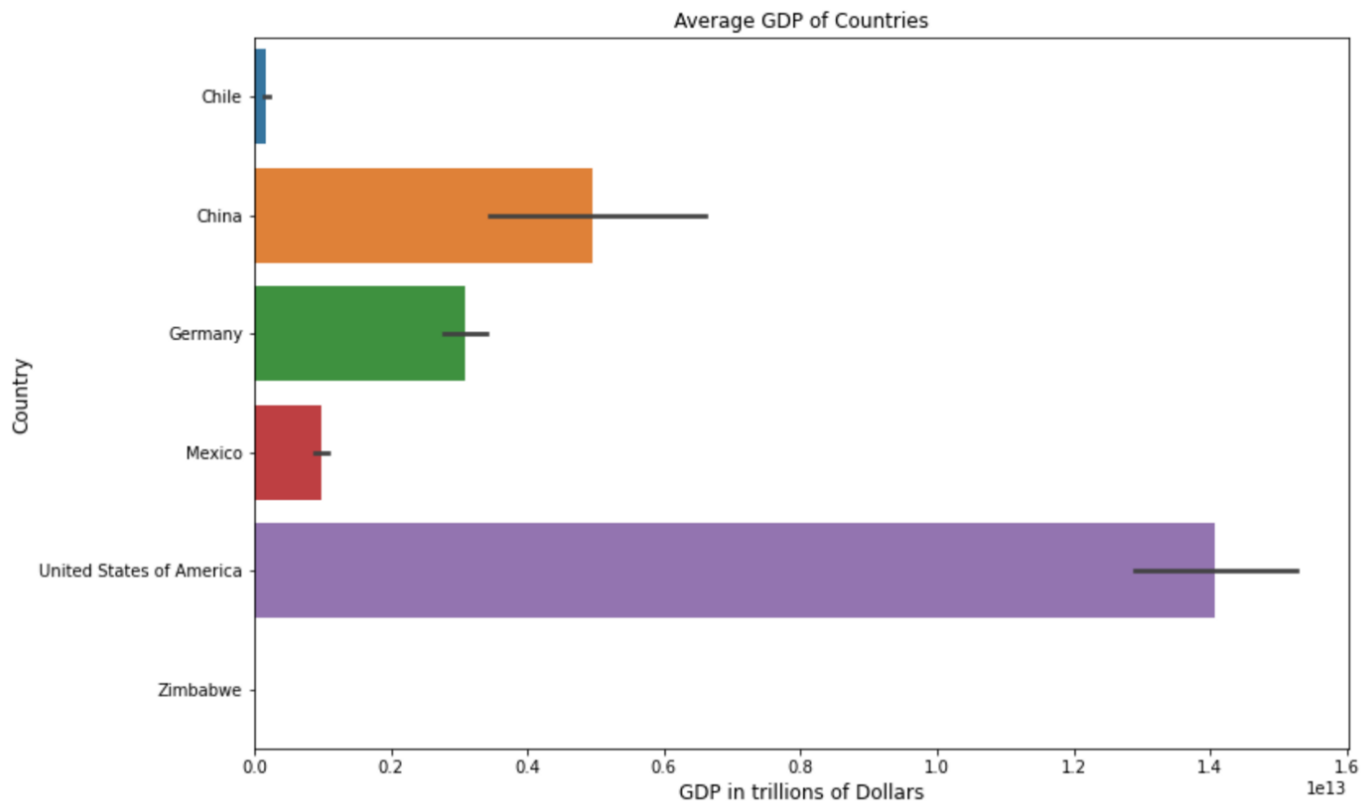




Upgrade

Open in app

the highest Life Expectancy to be towards the top.



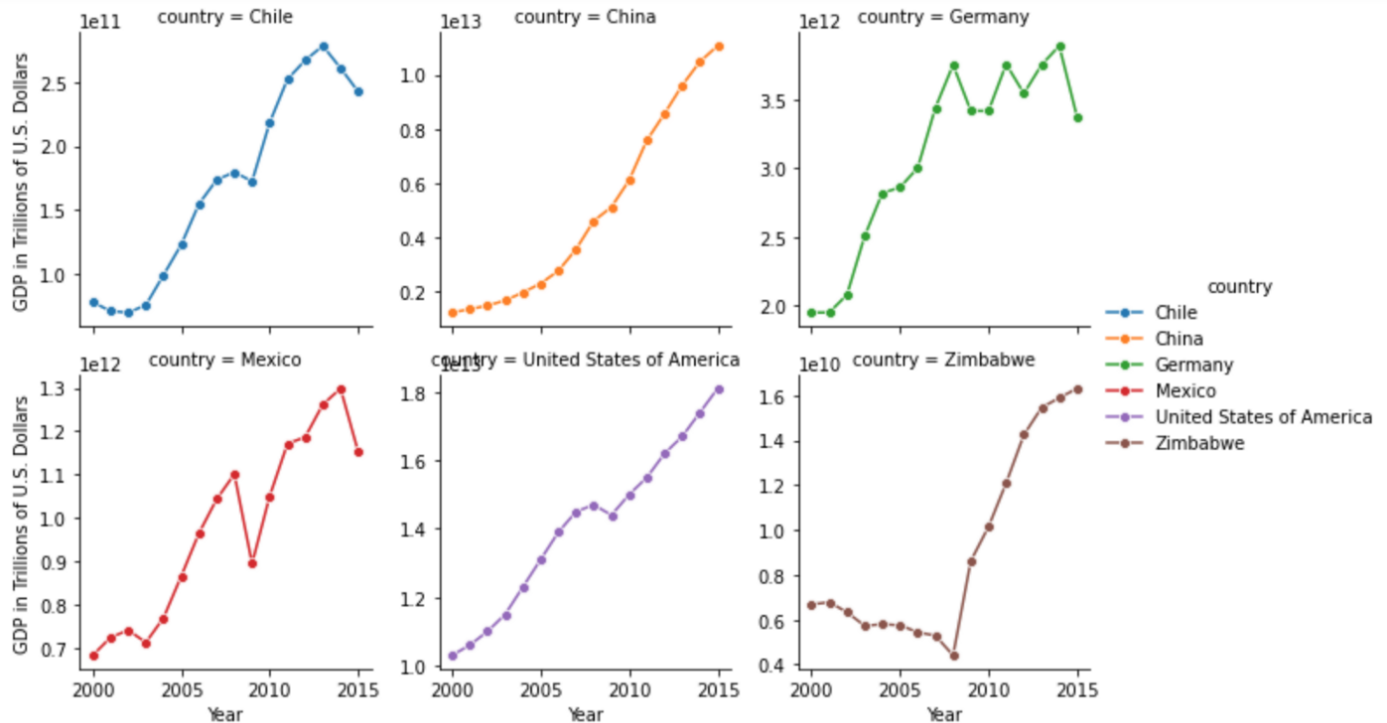
The United States of America blows the other nations out of the water with an astounding GDP of 1.4 Trillion. The next closest nation is China with a GDP around 500 Billion. Followed closely by Germany (300 Billion) and Mexico just under 100 Billion. If the correlation between Life Expectancy and GDP were strong, the order of GDP should follow that of Life Expectancy. The country that really jumps out looking at both of these charts is Chile. Chile has the 2nd highest Life Expectancy right next to Germany yet holds the 2nd lowest GDP among these nations. In order for us to get a better grasp on the problem at hand, let's dive deeper into the data.





Upgrade

Open in app



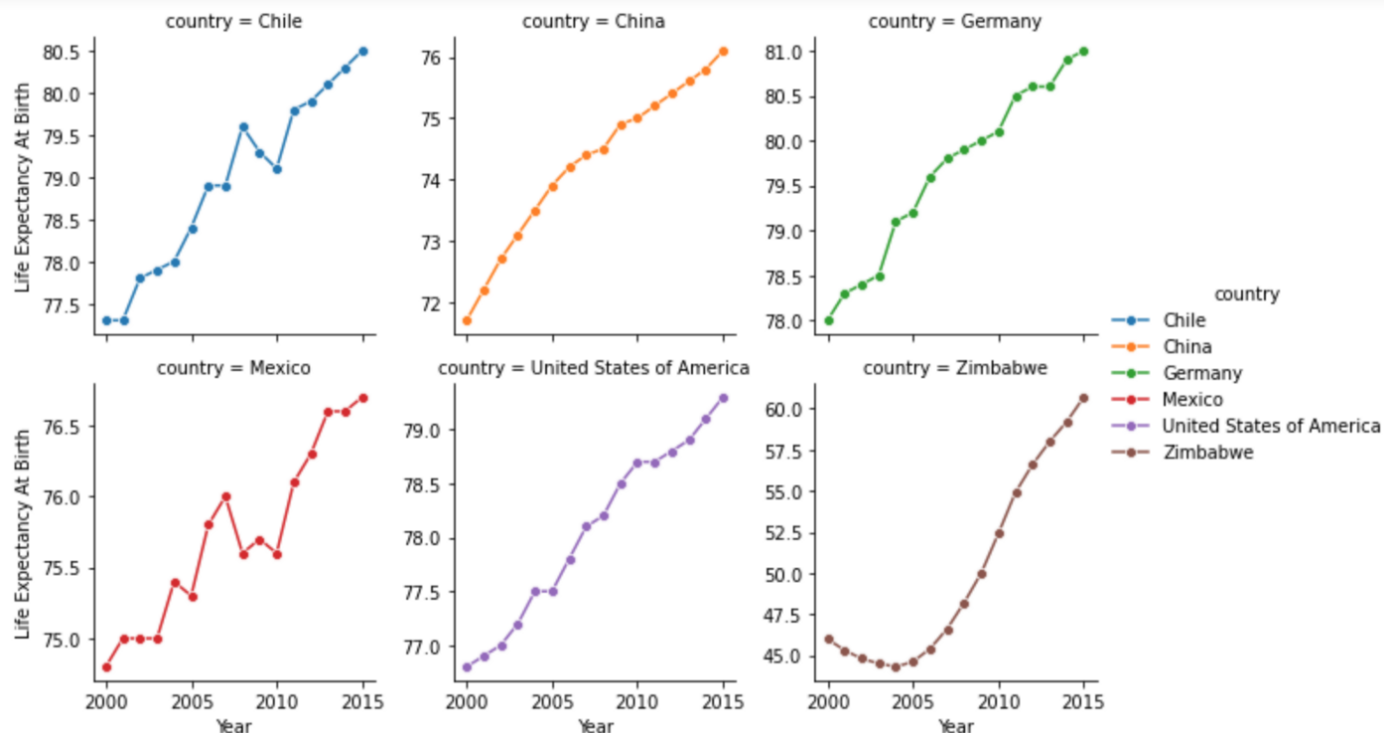
Each Country saw a steady increase from 2000–2015 except for Zimbabwe in terms of GDP. Zimbabwe’s GDP looked to be inching closer and closer to zero before something happened between 2005–2010. But after that major dip, Zimbabwe went exponential. Definitely something we could look into further if needed. It’s a lot easier to see countries that closely align when each nation has their own line graph. The graph below has broken each nation’s Life Expectancy over 15 years.





Upgrade

Open in app



Ranking the countries based on Life Expectancy...

1. Germany
2. Chile
3. U.S.A
4. Mexico
5. China
6. Zimbabwe

Ranking the countries based on GDP...

1. U.S.A.
2. China





Upgrade

Open in app

6. Zimbabwe

In conclusion, there doesn't seem to be a **STRONG** correlation between GDP and life expectancy. Chile has one of the highest life expectancy creeping just above 80 years old and they are in the bottom 2 in terms of GDP with Zimbabwe. This fact alone kills the conclusion of a strong correlation. *However* it is interesting to see how closely related the graphs of GDP and Life Expectancy of most countries are. I would say there is a correlation between prosperous countries and the life expectancy of the citizens there.

