



# Vitamins for Titans

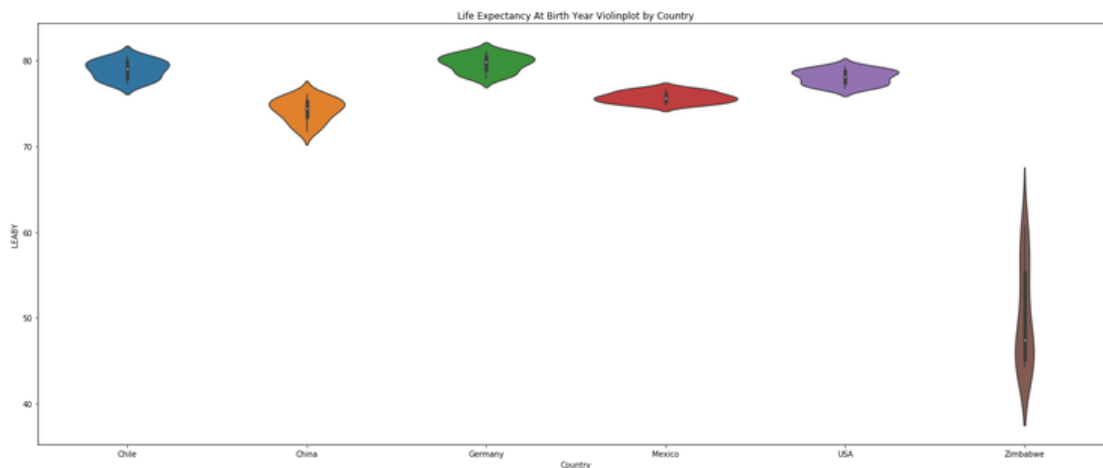
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JANUARY 23, 2019 / AKIRANAKANO6504

## Framing GDP and Life Expectancy Disparities: How Two Developing Countries Responded to Democracy

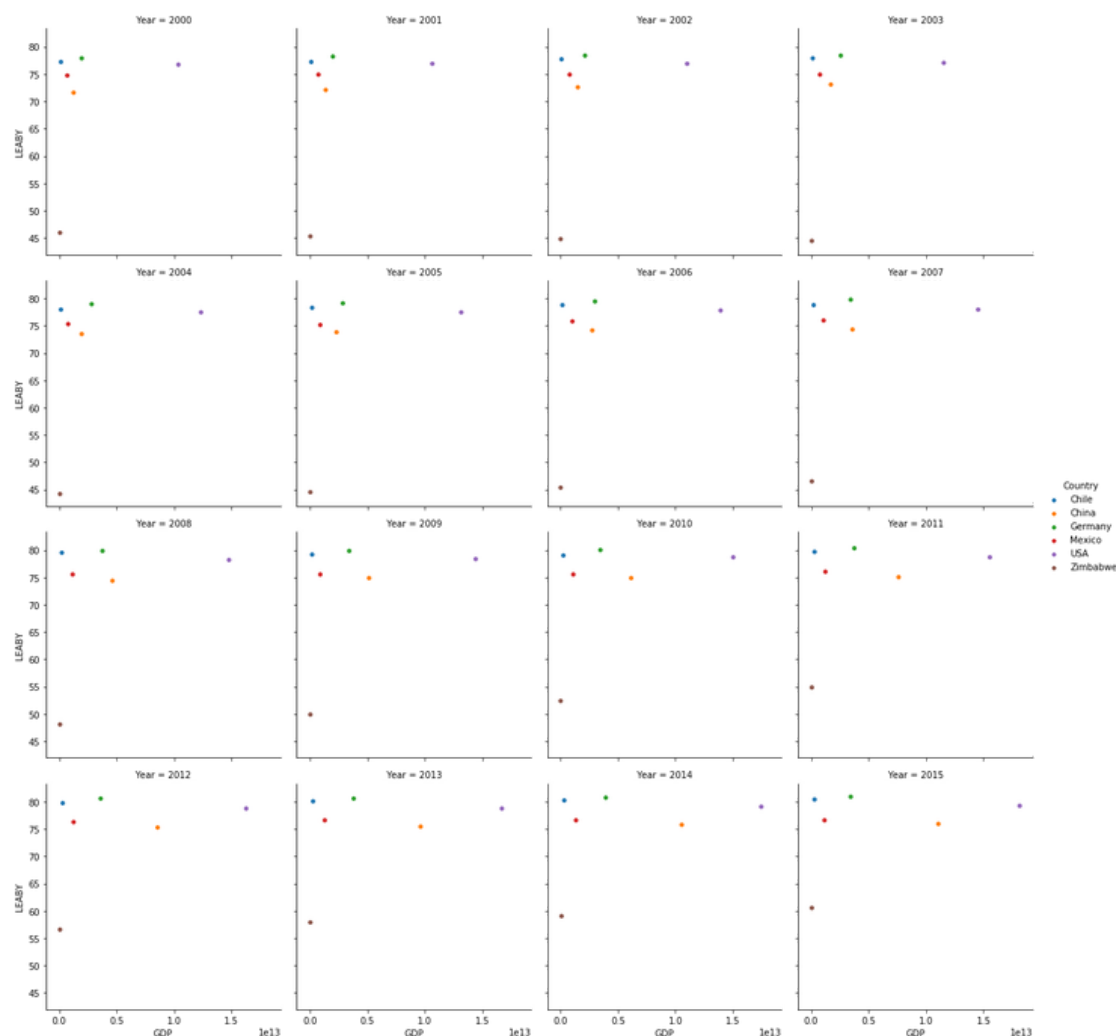
The following post is an analysis if Life Expectancy and GDP of different countries using Python 3 to visualize data and understand what insight can be gleaned from these visualizations. Data points range from 2000 to 2015.



In the above plot, we can see that LEABY has a similar range for every country represented except Zimbabwe. Germany in general has a higher LEABY, and China's LEABY is clustered in the the late 70's. To understand Zimbabwe's violinplot, we need to look at events leading up to the 2000's. Zimbabwe gain

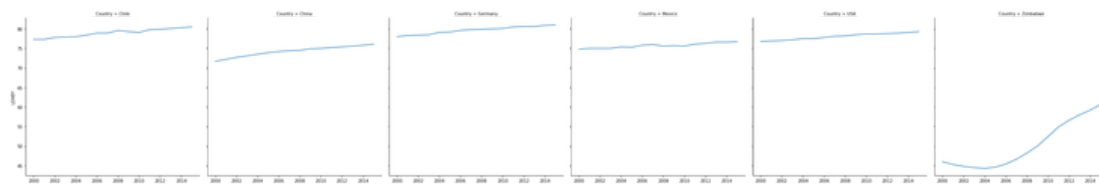
international recognition in 1980. Following this event, Zimbabwe went through a lot of turmoil that often occurs in a developing country new to democracy. The first president consolidated power and limitations were made regarding freedom of press. between 1980-2000. between 2000-2015, Zimbabwe has faced economic and governmental challenges including violent land seizures, food shortages, and government corruption. Read more in this article here: <https://www.bbc.com/news/world-africa-14113618>

To look at the relationship between GDP and LEABY below is a chart of the relationship separated by year:



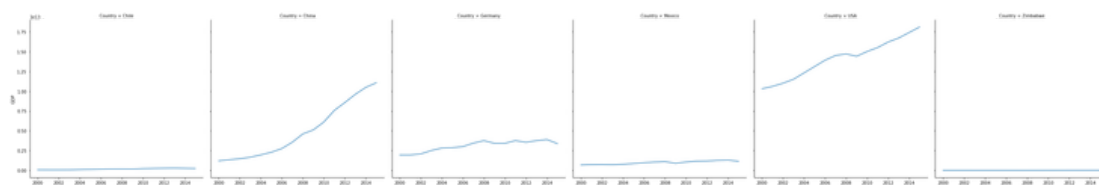
It is difficult to make accurate judgements from this chart because China and America skew the x-scale compared to countries like Zimbabwe and Chile. Due to the instability in Zimbabwe, it is difficult to compare its growth to countries with bigger economies. Despite having a similar GDP to Zimbabwe, Chile has a higher LEABY. This is due to a more harmonious entrance into democracy after Pinochet's removal in 2000. Chile was able to elect Michelle Bachelet who increased contraceptive availability for women in Chile.

Line Graphs of LEABY by year show a clear picture of changes for each country



Here we see a general upward trend for most countries, and a larger change in Zimbabwe's. From this graph, we could say that a low rate of change in LEABY is indicative of a more stable government.

Below is a line graph of GDP by year per country

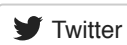


China and the USA see large growth in their economies, but this does not correlate to a change in LEABY.

In general, GDP is a weak metric unless paired with contextual understanding for each country, and certainly is not indicative of the quality of life of the average citizen in that country.

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