

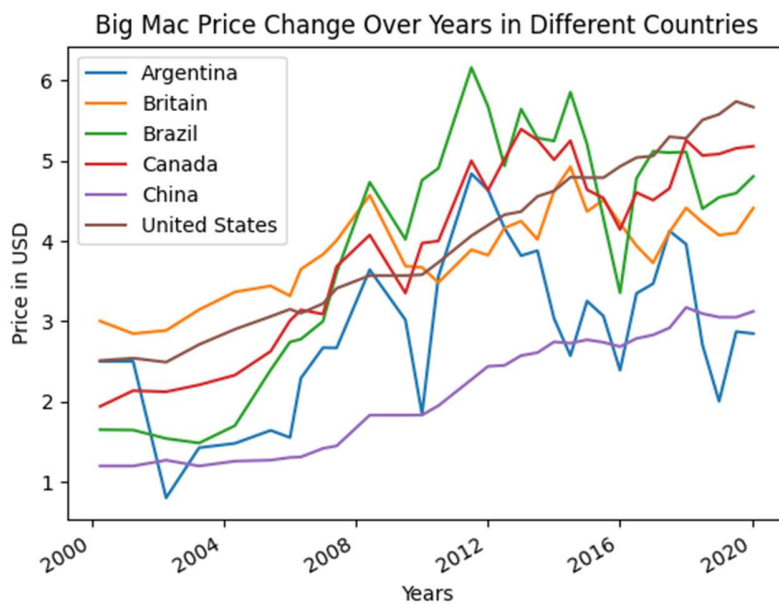
INFSCI 2415 Information Visualization

Final Report

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Iteration 1(Midterm)

Timeseries



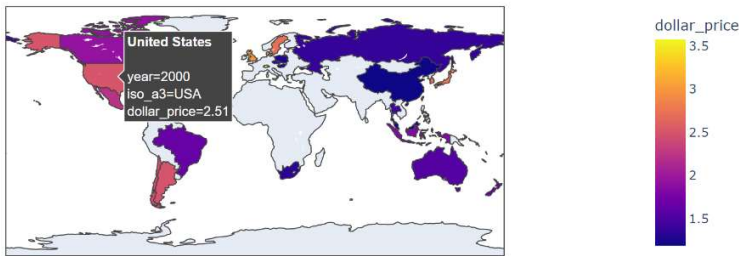
Dataset: The dataset I chose is Big Mac Price Change Over Years Over the World, as big mac as a type of fast food is popular around world and within everyone's daily life. The dataset consists of big mac prices from 2000 to 2021 in 30 different countries. It is intriguing to look back time and see how the price of food changes over time. Additionally, some features can be indicated from the figure's patterns; for example, we can indicate something might happen in South America in 2016, as the food price dropped significantly in South American countries while Asian countries remained the same price.

Issues with timeseries: The timeseries wasted lots of data within dataset as the dataset contains data for 30 countries from 2000 to 2021. Here we only showed data for 6 countries and ignore all other data for the figure's simplicity.

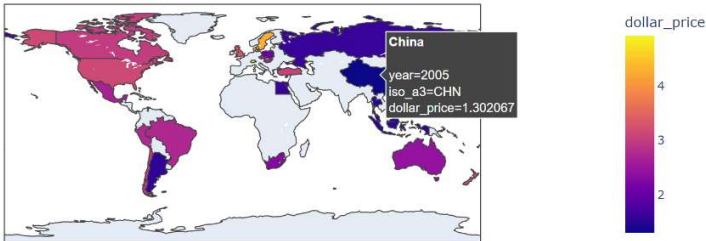
Improvement

Please note that this figure is an iterative figure with 22 different iterations. As the total figures are too much to include, here I only highlighted some examples for this report.

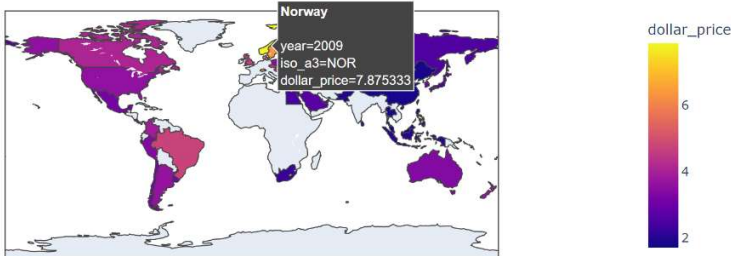
Big Mac Price Over the World



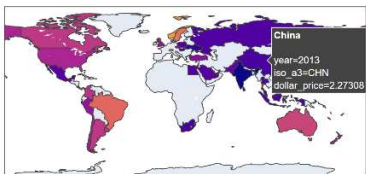
Big Mac Price Over the World



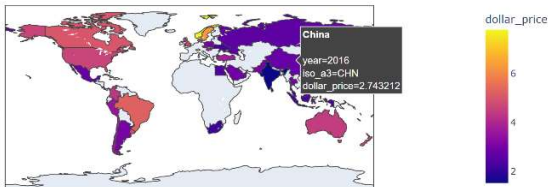
Big Mac Price Over the World



Big Mac Price Over the World



Big Mac Price Over the World



Instead of a small and compact timeseries which cannot show too many countries, I changed the visualization method and made it into a choropleth map with a slider. The

slider represents each year's data. In this way, we can include all the data within my dataset, and also keep the figure clean at the same time.

The figure itself will not show anything, but whenever the cursor hovers above a country, the information of that country will appear, showing the information of the **country, current year, and their Big Mac price converted to USD.**

Please note I didn't include Price in Local Currency, nor the Currency Exchange Rates for each year, as I feel they're not essential for analyzing Big Mac's price change.

The **Title** of this figure is "Big Mac Price Over the World", as each iteration of the figure shows the available big mac prices around the world at that year;

The **Legend** is shown as a color bar, warmer color within a location indicates that country had a higher price for Big Mac on that year;

X and Y axis should not apply to this figure, as the figure is presented as a world map, with different shapes and locations indicating different countries.