

Data 608 Final Project Write-Up

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Data Sources

WORLD BANK

The world bank has great data for indicators on how a country is performing within 21 topics areas to choose from. Each topic area has a list of indicators which show how a country is performing. By accessing The World Bank's [DataBank](#) python API [wbgapi](#), I was able to create a visualization to show trends for a chosen topic and indicator over the course of a specified date range. The data has not been filtered down to begin with, this will be done by the users.

Data Parameters

TOPIC PARAMETER DROPDOWN

The topic parameter allows you to choose between the 21 world bank topics. This filter will automatically update if the world bank adds more topics. Some examples of topics are Health, Education, and Climate Change. The default value is Health. This is a searchable parameter.

METRIC PARAMETER DROPDOWN

The metric parameter, or indicator parameter, allows you to select from the list of indicators once you select a topic area. For example, selecting Health will open 255 indicators to choose from. For ease of access this is a searchable parameter.

YEAR PARAMETER RANGE SLIDER

The year range slider allows you to select all the years going back from the first year where there is data, 1960, to today's year. This parameter should automatically update every new year. The slider allows you to select if you want to see data from the last 20 years or just the last 5 years. The default is set for the last 5 years.

Data Visualizations

IMPORTANCE

This visualization is targeted for international non-profit or government agencies that want to figure out what region or country their money and time is best used in for a specific cause. For example, a climate change international non-profit is trying to figure out trends in climate emissions over the last 10 years to understand where to create a media campaign to get governments to reduce emissions. This org could use my dashboard to figure out which region or country to focus their time.

REGION LINE GRAPH

The region line graph shows the median indicator number for each region during the given years. This is important to get a high-level view of where the regions are trending over the course of the year parameter.

CHOROPLETH MAP GRAPH

The choropleth map is animated for the years selected. This can help show which country per year is always at the top or bottom of an indicator compared to the rest of the world. This can help identify specific countries that need extra help because they have consistently been behind year after year.