**Is Global Warming Real?**

**Team Members:**

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**Objective:**

Global Warming is a huge debate throughout the globe and our goal as the

Correlation Coefficients is to utilize data to visualize the threat of global warming.

**Data sources:**

1. https://www.kaggle.com/berkeleyearth/climate-change-earth-surface-

temperature-data?select=GlobalLandTemperaturesByCountry.csv

* Describes global temperatures by city (with latitude/longitude) and

countries (without latitude/longitude)

1. https://www.kaggle.com/paultimothymooney/latitude-and-longitude-for-

every-country-and-state?

select=world\_country\_and\_usa\_states\_latitude\_and\_longitude\_values.csv

* Gives us the latitude/longitude for each country

1. https://en.wikipedia.org/wiki/List\_of\_countries\_by\_past\_and\_projected\_future\_population

* Gives us population change for past and future projections (actual pop

and rate change)

**Possible JS Libraries:**

* AnyChart.js
* Anime.js
* FullPage.js

**Action Plan:**

1. **Understand the data**:

* Global temperatures are broken down into countries and cities as well

as dates ranging from around 1703 to 2013

* Latitude and Longitude for each major city and country.
* Population data from 1950 – 2050 (future projections)

**2. Situation:**

* We will be taking temperatures for each city and country starting with

01/01/1792 and ending with 01/01/2013 broken down into buckets of

20-year increments and finding the average change per period.

* For each country and city, we will be combining the latitudes and

longitudes to create an interactive heatmap that shows progression

throughout the years.

* Find the top 10 countries with the largest climate change and combine

with population growth rate.

* Bonus: Calculate future growth rate??

**Mission and Belief:**

We believe that as time has progressed into modern ages, global warming has

become a more obvious issue throughout the world. We will be using our data to

create charts and heatmaps to understand what parts of the world have drastically

increased in temperature throughout the years.