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CS 360: Data Visualization

1/30/22

**Assignment 1 - Data Exploration with Tableau**

Dataset used: <https://www.kaggle.com/berkeleyearth/climate-change-earth-surface-temperature-data>

*Please see PDF file “CS\_360\_A1\_GISH.pdf” included in this directory for data analysis*

Findings:

1. The most significant finding was the trend of average global temperature over the course of the dataset (60 years). It is unnerving to see how the global average temperature of the Earth’s surface has rising from 1.5 °C to 20 °C in a little over half a century.
2. Next, when inspecting the end-to-end change in average temperature by country, the change values found were larger than expected. Kazakhstan was reported to have the largest change of 47 °C. In fact, this value is so large that it is reasonable to question the quality of the data.
3. The most interesting aspect of this dataset is visualizing the temperature change from 1750 – 2017 by country using a heat map. By doing so it becomes obvious that the areas of the world that have experienced the largest temperature change over that time period are located within the northern hemisphere. This is significant when thinking about the threat of ice-melt due to climate change.