Global Warming Impact

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Introduction

My goal is to determine if global warming can be determined to be true based on weather data, specifically, data from the month of April in 1922, 1972, and 2022 (50 years apart)

Data used:
https://www.extremeweatherwatch.com/cities/new-york

This data is from a trusted source (National Oceanic and Atmospheric Administration), though it is to be noted that data from 100 years ago may not be as accurate as data today

What data are we analyzing?

Choose one approach to grab the audience's attention right from the start: unexpected, emotional, or simple.

- ➔ **Mean**
  One of the more basic calculations, we want to see the average temperature to get an overall number of the weather conditions of the given year and compare them.

- ➔ **Standard Deviation**
  A useful calculation to determine how much the temperatures tend to be higher or lower than the average.

- ➔ **Correlation Coefficient**
  A complex calculation used to determine the relations between a pair of datasets. It is useful to determine how much change two similar sets of data will have

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code .

Analysis

At first when I analyzed the datasets from 1972 to 2022, we see a 1.467° temperature increase, showing that temperature is indeed warming over the years, however, this is such a small sample size and based on the standard deviation, it appears that april isnt a very steady month when it comes to temperature. So we obtained weather data from 1922 and we see that the average temperature from 1922 to 2022 has actually decreased. However, as stated earlier, it is hard to determine the accuracy of such data, and larger scale data should be made to obtain better results.