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INFO 474

Design Challenge 3 Project Overview

3/13/2023

PROJECT OVERVIEW

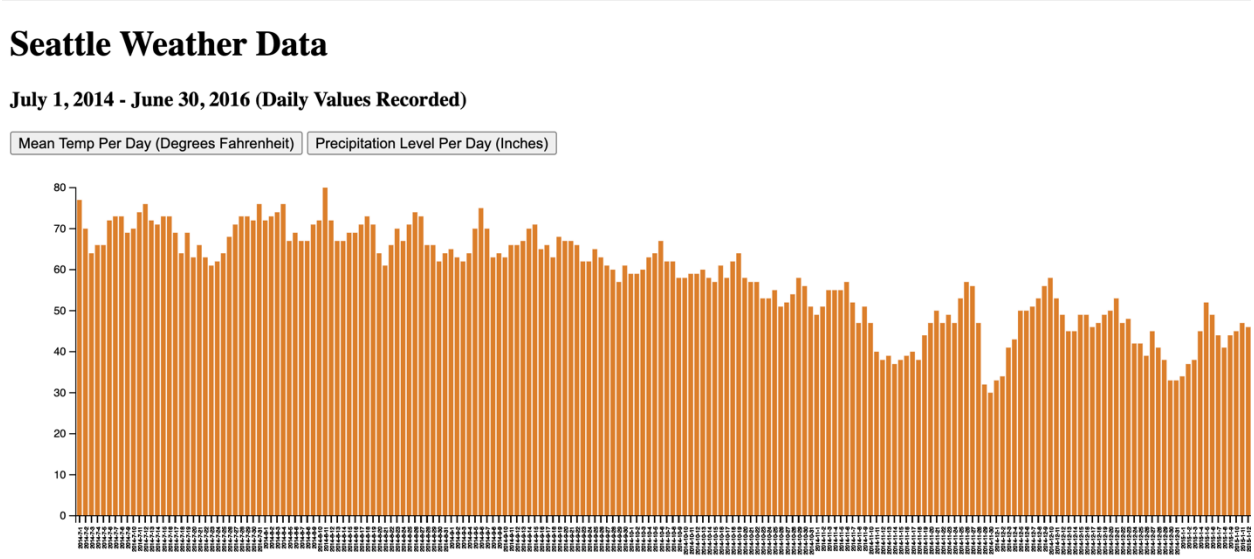
User tasks:

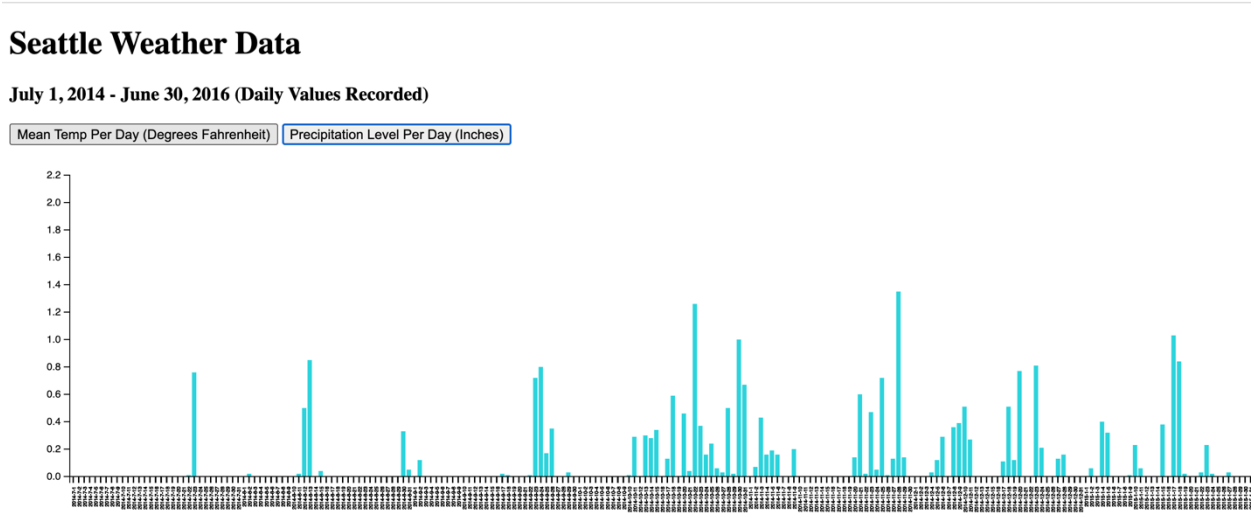
- Identify the hottest day in the span of days of data collected
- Identify the day with the highest precipitation in the span of days of data collected
- Identify the coldest day in the span of days of data collected
- Identify the day with the lowest precipitation in the span of days of data collected
- Observe the temperature trends over the span of days recorded
- Observe the precipitation trends over the span of days recorded
- Compare relative differences in temperature between different days and points in the year
- Compare relative differences in precipitation between different days and points in the year

Design Overview: Some of the objectives that I wanted to accomplish with this design is that I wanted the user to be able to easily compare trends over the course of the days recorded for at least two variables. I also wanted to avoid a design that wouldn't smother the user with information, so I included buttons to change the variable of interest that is displayed in the bar plot. I wanted to use a bar plot instead of other visuals features because I think that it complements the variables well, especially the precipitation variable. I also tried to use colors

that seem somewhat related to the variable of interest. For example, I used orange for the temperature variable since it makes sense that the bar filled with more orange had a higher heat that day and blue for precipitation since blue is associated with water.

User interface Screenshots:





Explanation(s): Since I decided to make a bar plot where the x-axis is dependent on the number of rows in the dataset, there is obviously a very long x-axis on the plot and with that, it makes the dates used a bit harder to see individually. Along with that, the dates used in the dataset start in the middle of year and continue for two years so it might not be as intuitive for the user since they would probably expect the data to start at the beginning of a year.