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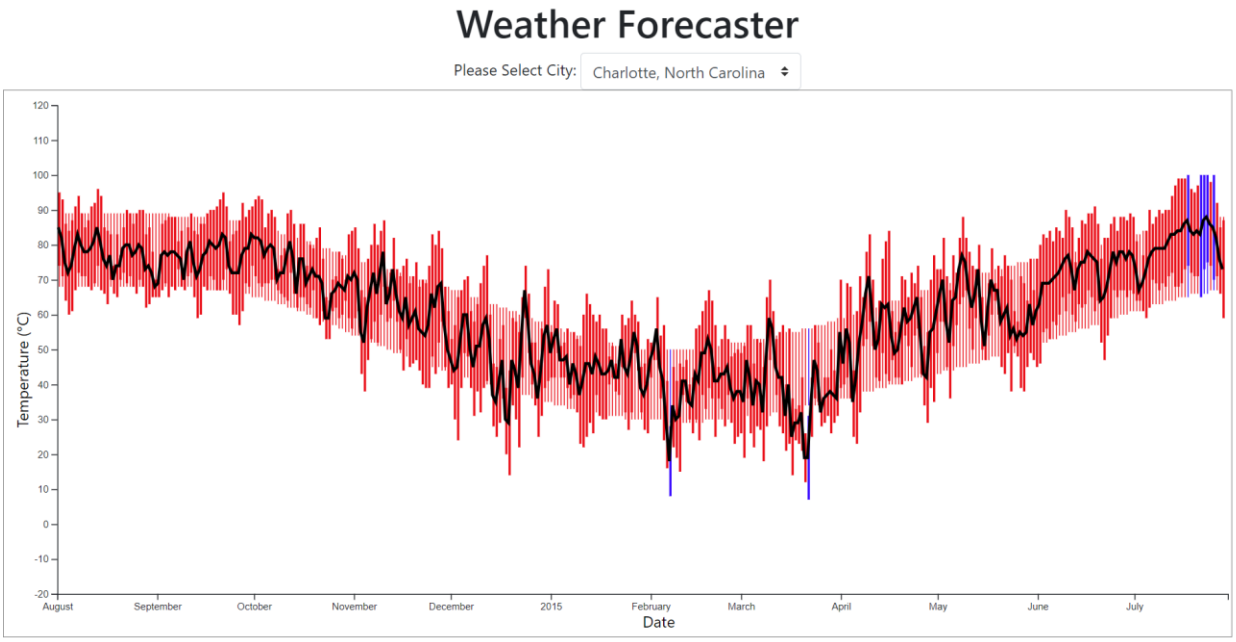
6.1.24

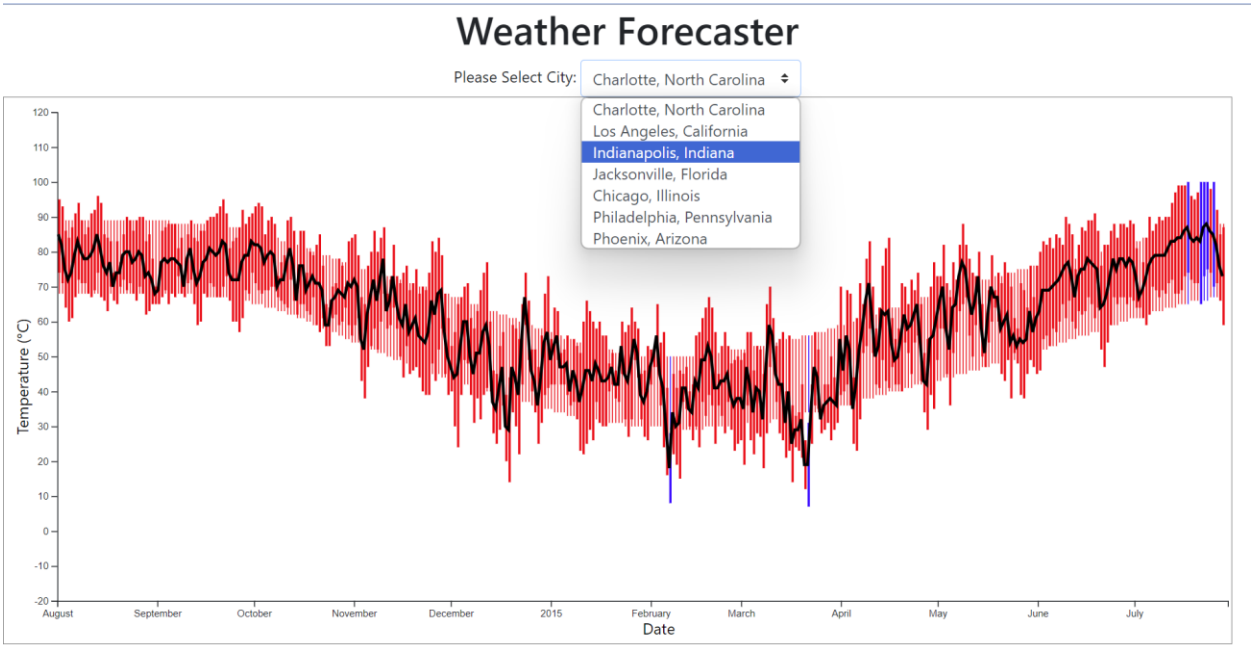
INFO 474 – Final Project Overview

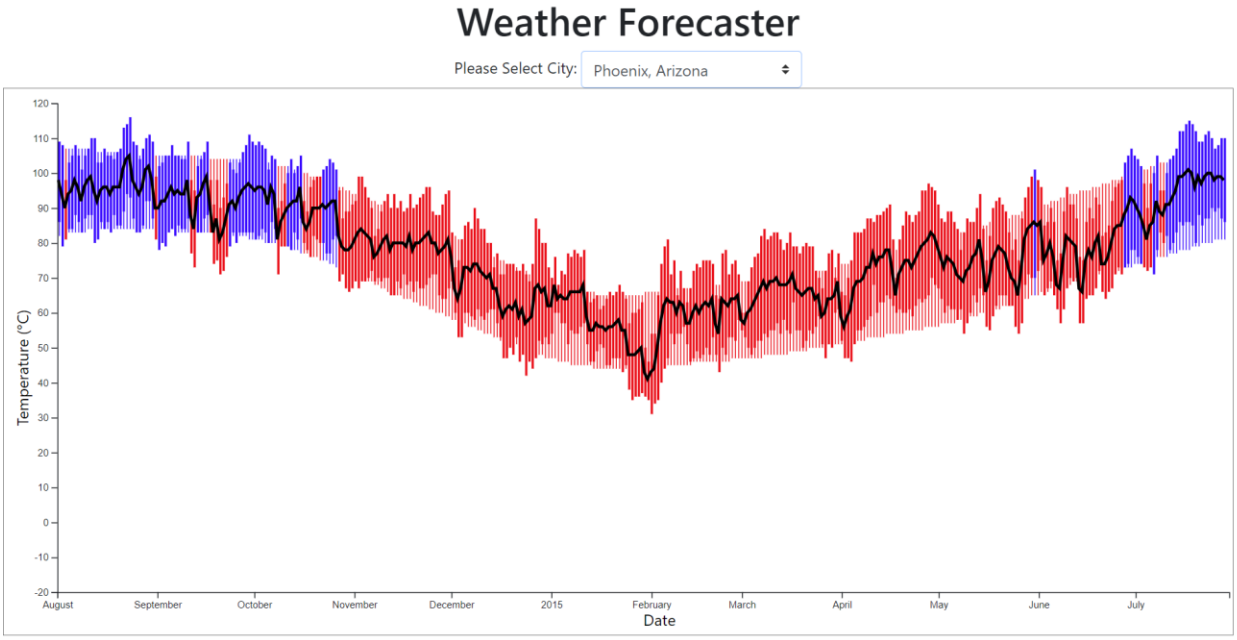
This visualization mainly supports the user task of a weather forecaster trying to report the actual minimum and maximum temperature for a specific period of time, as well as the actual mean (or "expected") temperature for the same period of time. These three values are represented as the "candles" of the candlestick graph, as well as the line for the actual mean temperature. This task is supported by the visualization mainly through the zoom functionality, allowing the user to focus on a certain week or so and get actual minimum, actual maximum, and actual mean temperature values.

Additionally, this candlestick graph shows the average maximum and average minimum temperature values for said time period (since the year 1880). These two values are both represented as the "stems" of the candlestick graph. The combination of the "candles" and "stems" create a sort of bounding band in the visualization, showing where the temperature for said location will most likely fall in the proposed time period.



The two main interactive features of this visualization are the changing of datasets and the ability to zoom. The user can change datasets by interacting with the drop-down menu and change the data by selecting a different location out of the proposed options.

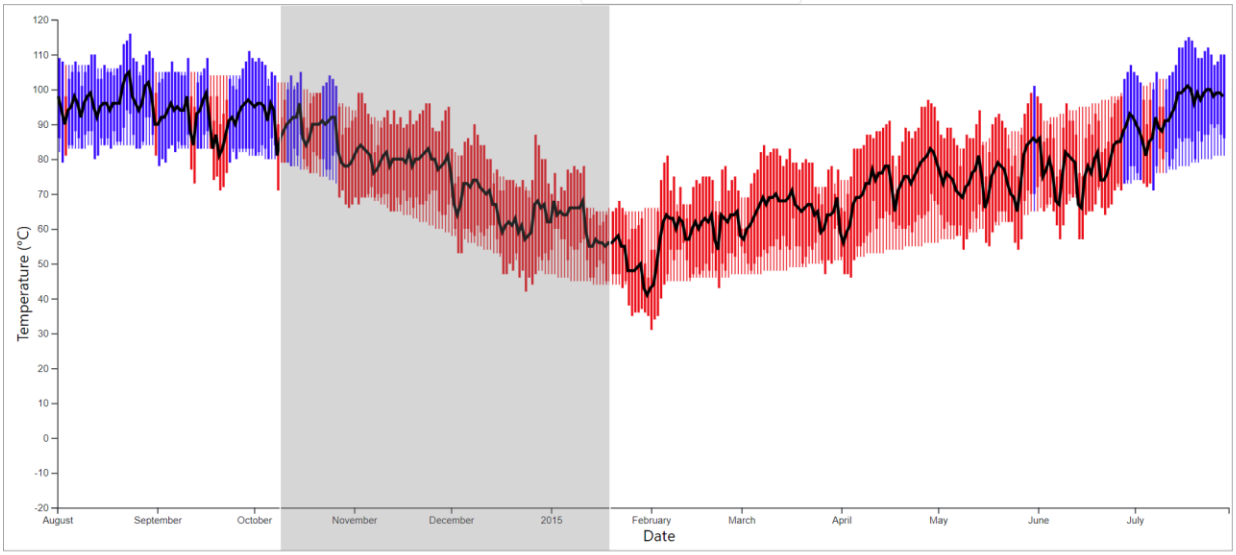




The user can additionally zoom in on a specific time period in the dataset by using the brush and selecting a time period. The visualization then zooms in and shows the temperature data for that time period. Additionally, the user can double-click anywhere on the graph to zoom back out to graph's original overall timeline.

Weather Forecaster

Please Select City: Phoenix, Arizona



Weather Forecaster

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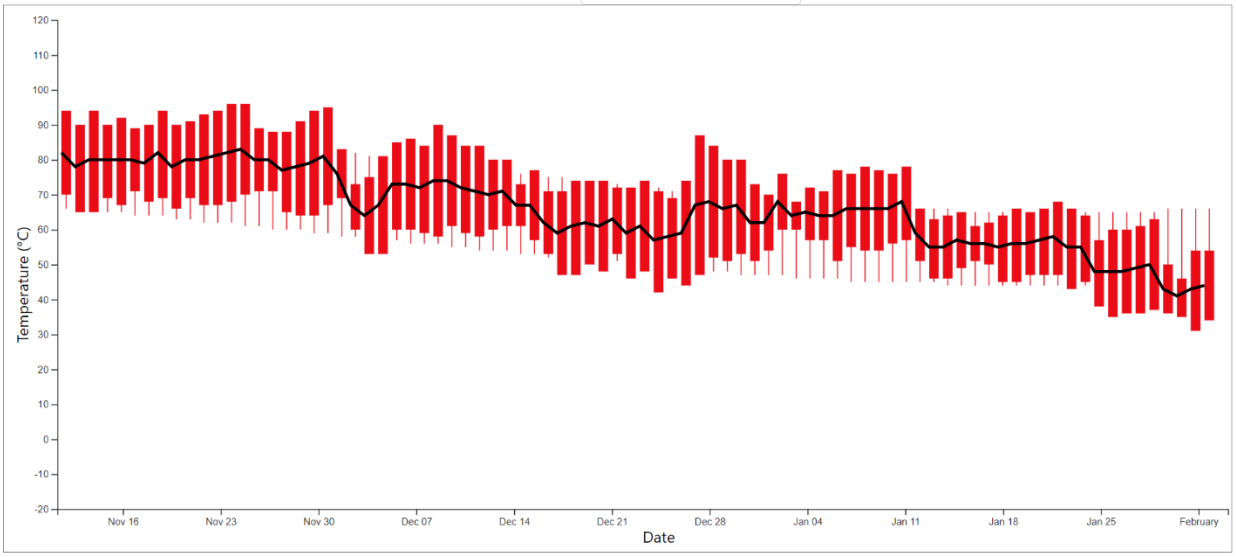

Weather Forecaster

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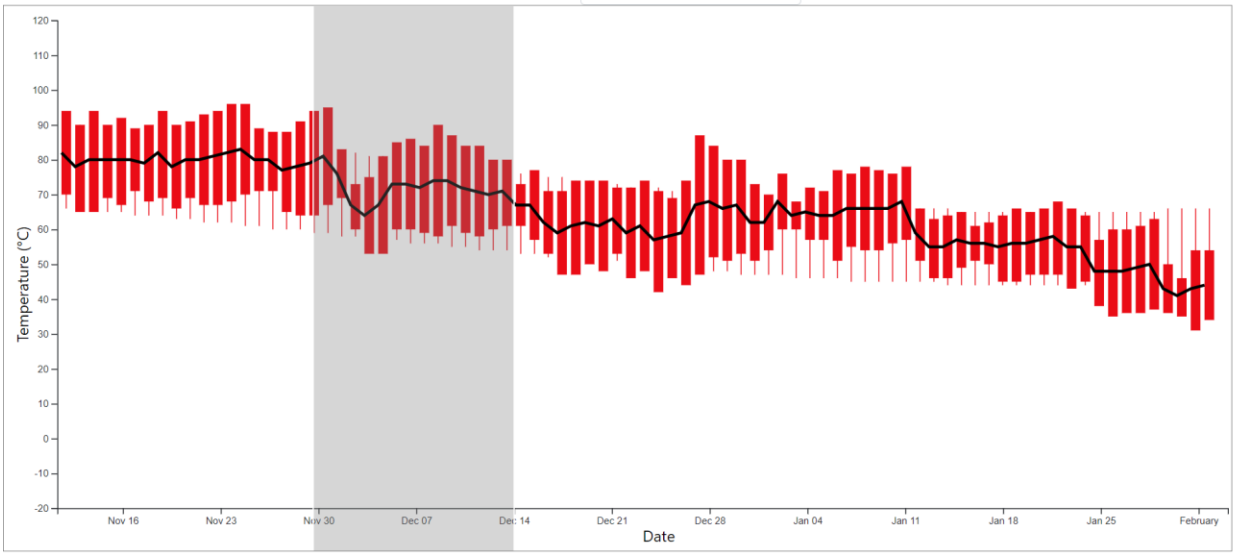
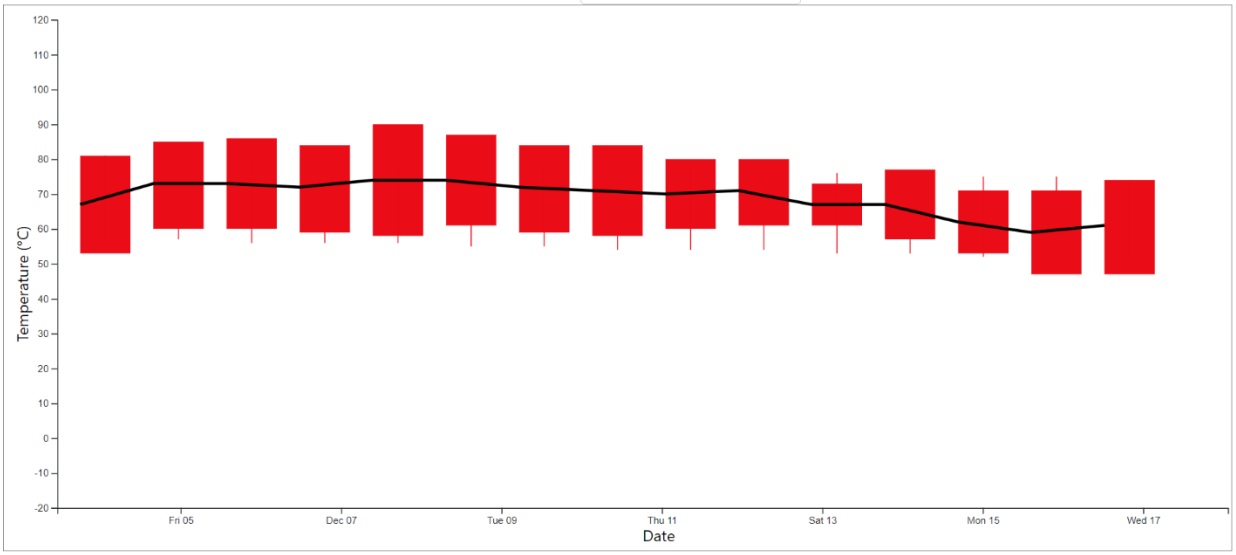


Weather Forecaster

Please Select City: Phoenix, Arizona



Weather Forecaster

Please Select City: Phoenix, Arizona