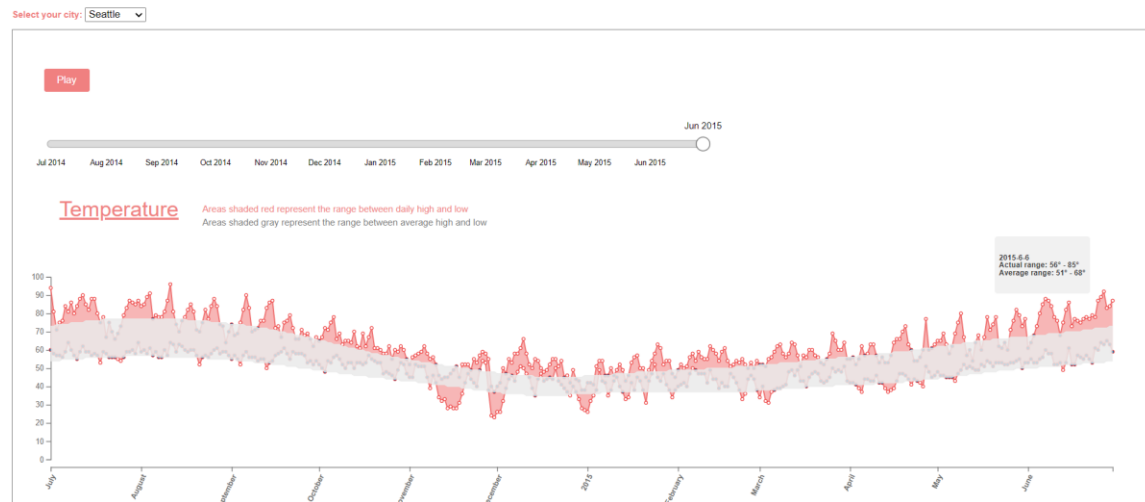


Climate Change in Three Cities



Overview:

As the title suggests, the design aims to show general temperature trends across three cities, each with a view of the city and city can be selected at the top of the visualization. Each interface of the city includes two area charts for maximum and minimum temperatures of each day. The area in red represents actual maximum and minimum temperatures and area in grey represent the average temperature on that day since 1880. Based on the overlapping shaded area, it is easier to judge the difference between the actual temperature and the average temperature in order to reflect the effect of climate change. As you hover to each datapoint, a tooltip will show up and information including date, actual and average temperature range will display on the tooltip. So people who are interested in specific day can have a look at it.

Here are some user tasks it will support:

- Compare actual temperature to average temperature
- Discover trend of weather
- Lookup temperatures for each day
- Present data for certain time period
- Enjoy the animation of showing trend
- Compare trends of weather across the cities

Besides the basic design, I add on a slider to allow the user to choose the time period starting at Jul 2024 they want to look at. User can drag the slider left to right to change the time period. You can also switch to another city at the same time so user can compare the trends of temperature in different cities.

(Below are screenshots for Seattle and New York, dates are up to Nov 2nd, 2014)

Climate Change in Three Cities

Select your city: Seattle



Climate Change in Three Cities

Select your city: New York



Except the slider, there is also a play button on the top of the slider. When you open the visualization it is empty first. User can click “play” to enjoy the animation of the trend. Charts will be drawn automatically to the user and they can click pause when they want to end at specific date.

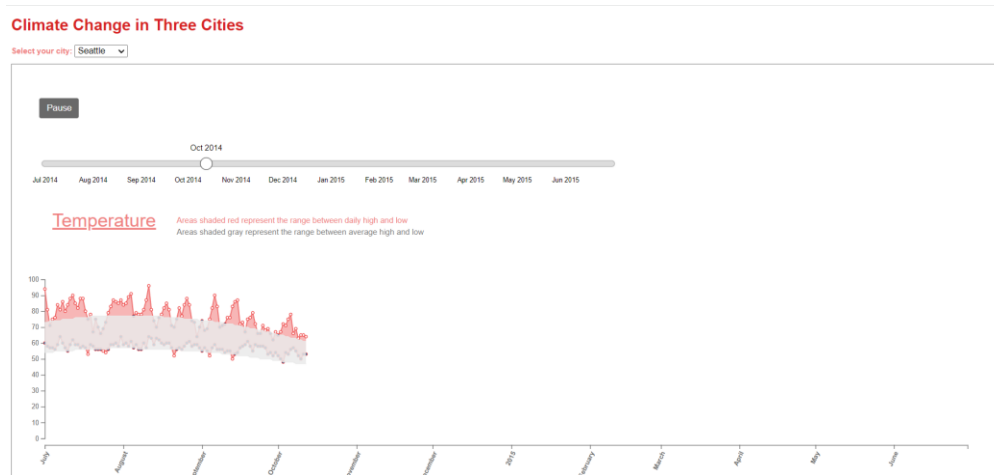
Interface when open the visualization:

Climate Change in Three Cities

Select your city: Seattle



Interface when hover to the play button and the animation is playing:



Interface after user click pause:

