

## User Tasks:

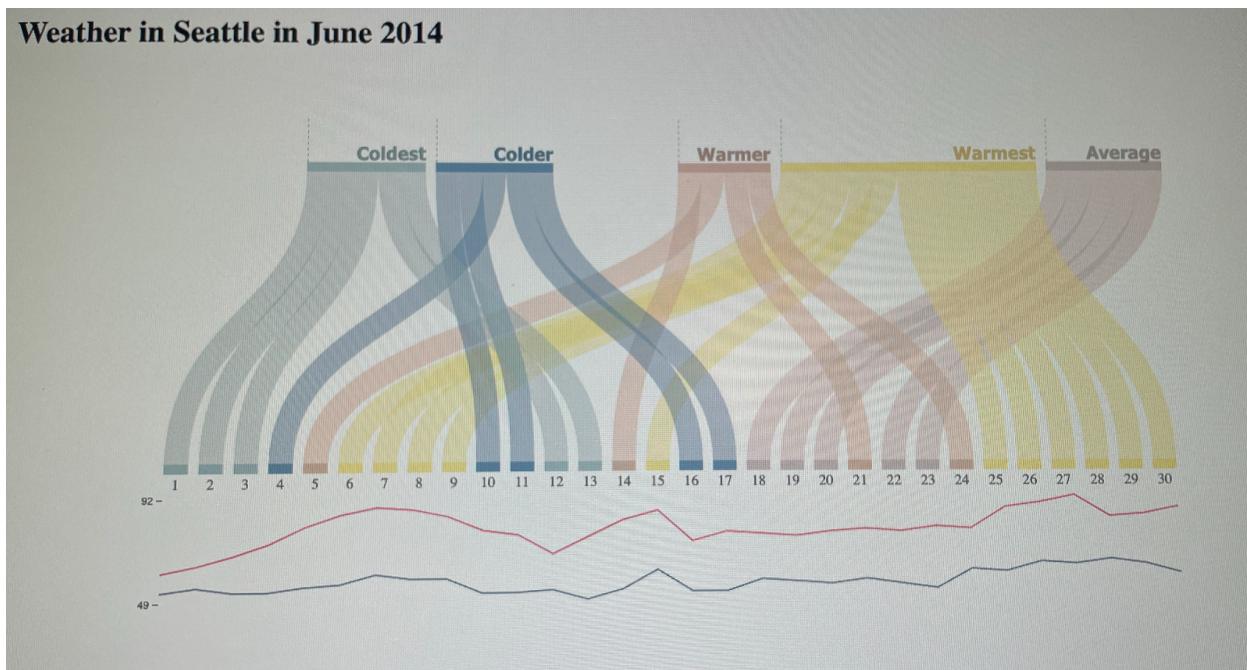
User's can view the ranges within each month as a temporal view in Seattle. They have the ability to change the month they are viewing, and can get exact temperatures by hovering over the line plot below. They can also single out a certain temperature range (Colder, Warmer, etc.) by hovering over the title, allowing them to see a focused view of exactly which days fell into that range.

This design is meant to emphasize the seasons in Seattle, specifically through the change of temperature each month. As a user changes the month to view, they will see a change in when the warmer days occur vs the colder ones. Users will find that in the months roughly July-September, the warmest days of the month occur in the beginning of the month, indicating that Seattle temperatures tend to begin cooling down around July. The flip is also true for the Winter and Spring months, as the warmer days begin to shift to the right of the plot, allowing the user to see when things start warming up. For more detailed information about the temperatures that month, the user can observe the line plot beneath the visual, by hovering over the chart, they can get a detailed view of the temperatures that day.

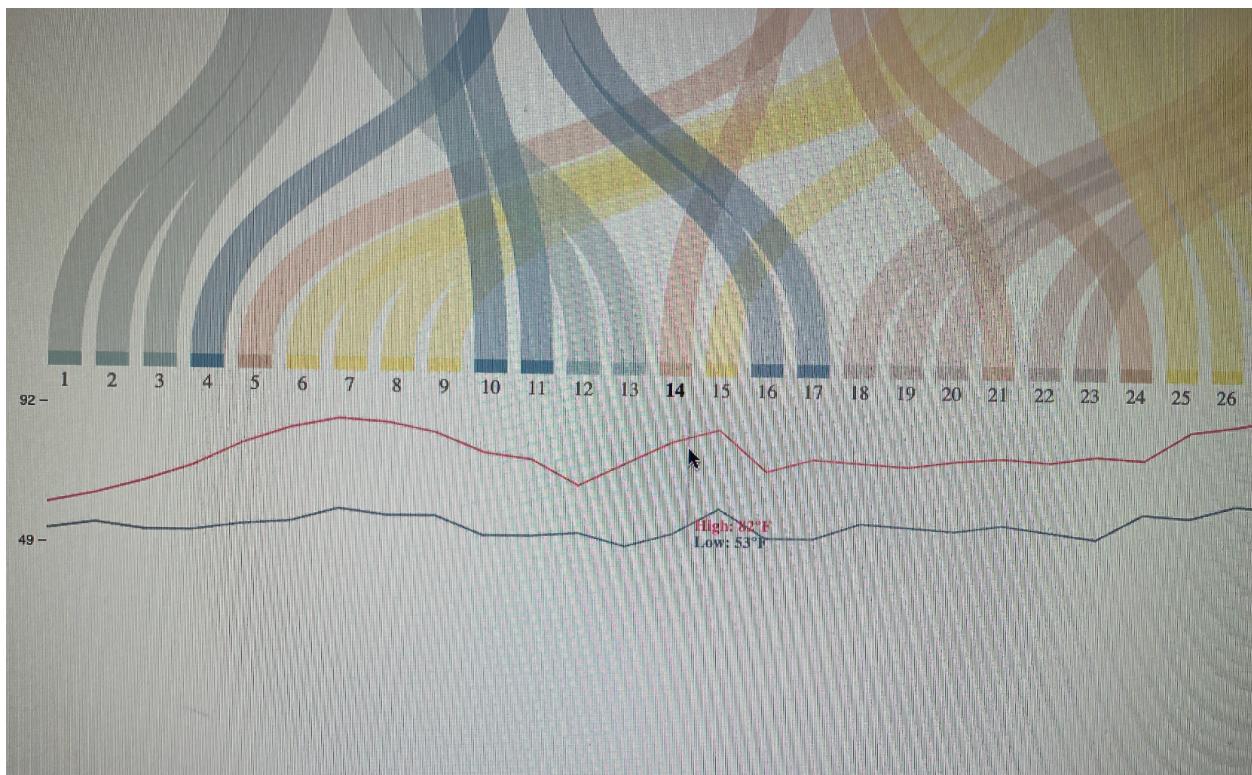
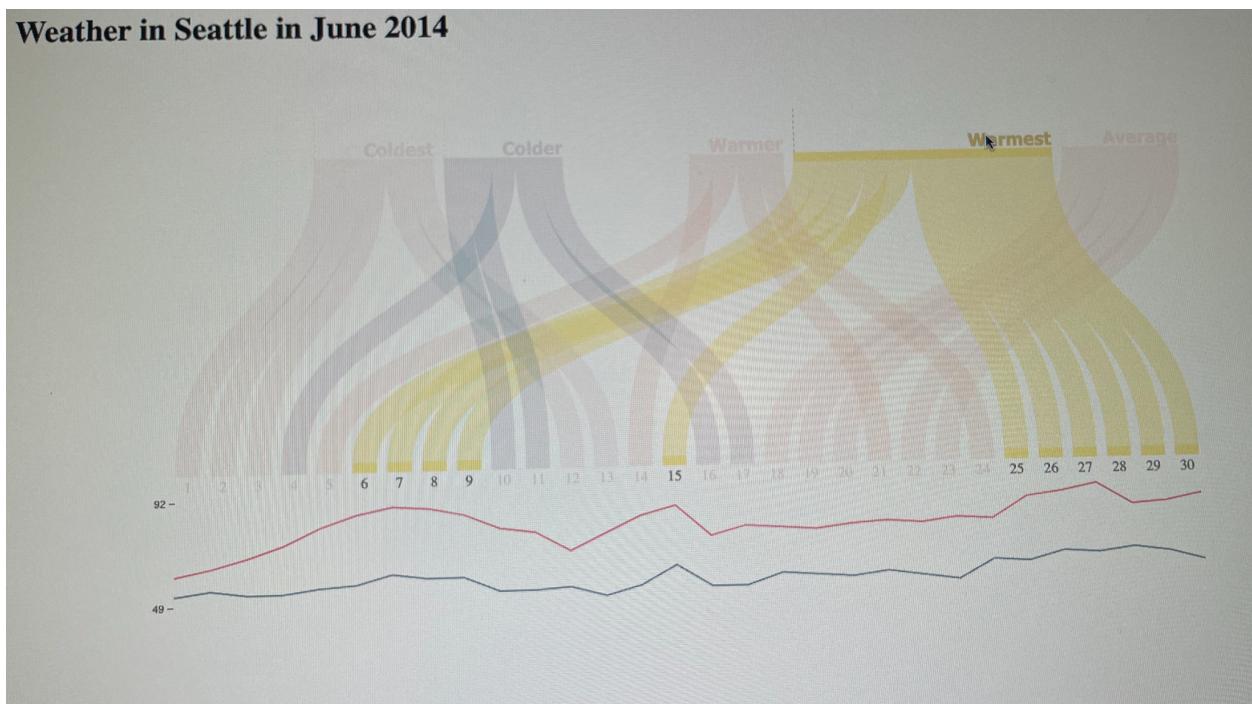
The choice to not include legends was purposeful. When initially added, it added some unnecessary complexity to the visual. I believe the visual speaks for itself with the simple title and line plot below. The user may not immediately understand what is going on like they would with a single bar chart or scatter plot, but I believe it quickly becomes apparent what the visualization is showing by inferring from the line plot below.

A serious challenge that came from producing this visualization came down to the range of temperature values which should lie in each category (Coldest, Colder, etc). If these values are hard coded (say Coldest contains temperatures within the range 0-30 degrees), the number of temperatures which fall within them changes drastically between winter and summer months, where summer months only contain "warmest" and "warmer" days, for example. To get around this, I dynamically shift the ranges for each category based on the month, ensuring that each category captures roughly the same number of days. This allows for the categories to remain the same size regardless of which month is selected.

## Weather in Seattle in June 2014



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## Change Month

June ▾

