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Info 474

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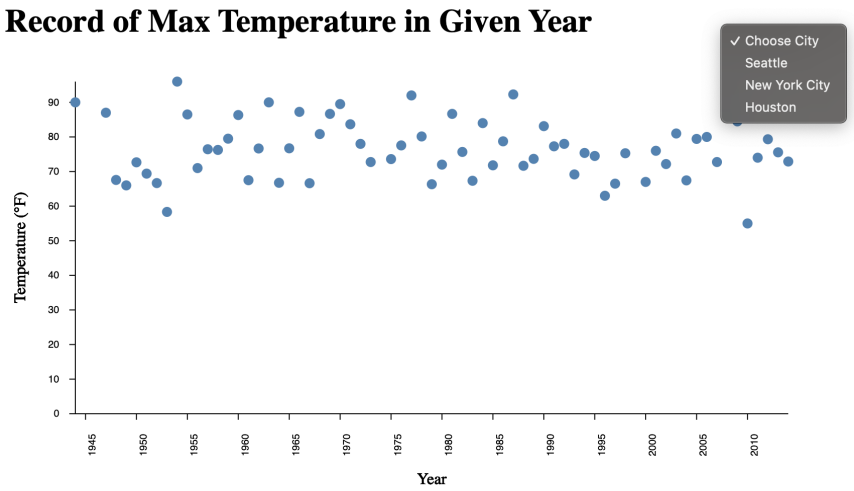
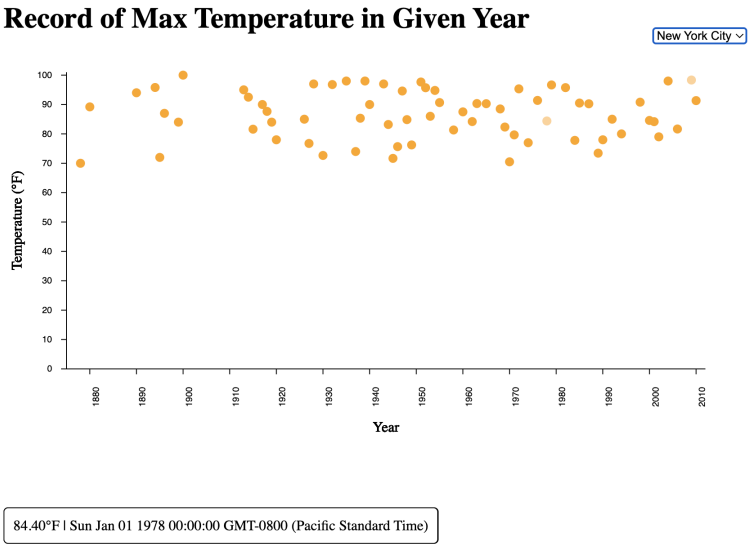
Final Deliverable

In this Design Challenge, I have chosen to show the record of the max temperature in the given year. I chose to use the KSEA.csv, KNYC.csv, and KHOU.csv to display the data in the csv files for Seattle, New York City, and Houston. Additionally, I chose to use a scatter plot visualization method in order to easily show the distinguished data points between the cities. Choosing this design method allows the users to see the points on the graph and how they correlate to previous years. Another design choice that I made was to add interactivity to the visualization.

For this visualization, I made sure to include a dropdown menu that the user can filter through in order to see which city they would like to view the data for. Another design choice that I made was to add a tooltip factor that would tell the exact temperature, rounded to the nearest hundredth, as well as the date and time that the temperature was recorded. This is important and valuable to the user since this will allow the user to see the specific points on the visualization and the values that are held within each one. You can see the interactivity features below in both the dropdown menu and the tooltip.





I chose to make sure that the users would be able to interact with the data and see the specific data points within the visualization in order to provide a more accurate representation and explanation as for what my data means. My data looks to answer questions regarding highest temperatures during given years and specifically what day

it was recorded on. Doing this should give weather forecasters and general civilians an idea of what the hottest temperature is at a given year and based on global warming, this data could be used in the future to predict heat levels. The only confusing aspect in my graph that I can see is that the x-axis only has every decades years posted down there but I chose to make this decision because if I had included all the years that are presented in the graph then I would have a very cluttered x-axis. Lastly, I also chose to use different colors to distinguish each city's visualization because I believed that it would be helpful for the audience to see different colors for each city.