

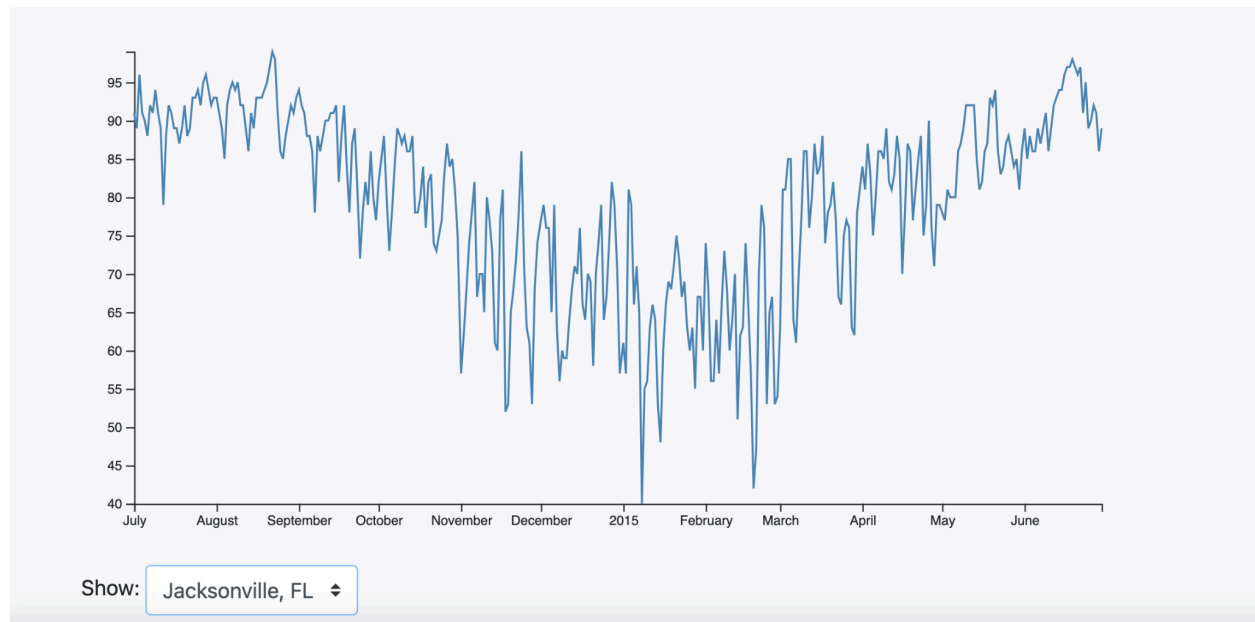
Matthew Chung

6/1/24

Professor Deeb-Swihart

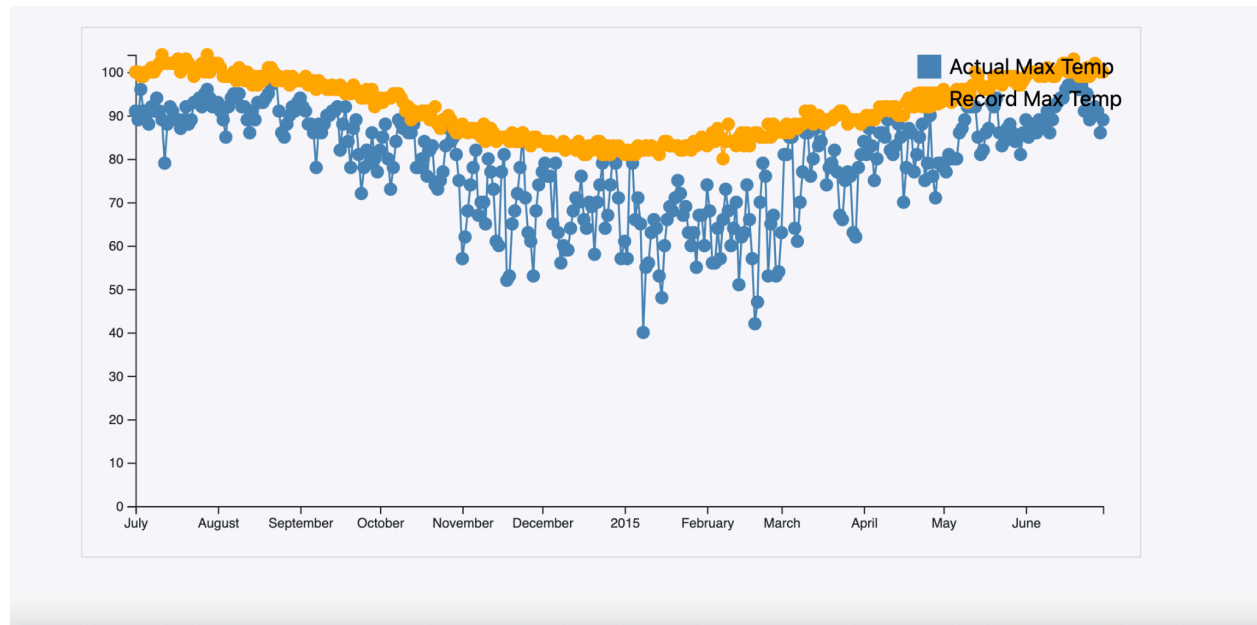
### Final Deliverable Write Up

In my data visualization, I wanted to focus on Florida and the comparisons of Florida's weather to different parts of the United States. The way that I structured my system was, by first giving a brief overview of the weather within the different locations, then followed by the comparison of how Florida weather has changed over time, then it is looking at the different coasts of the United States and looking at how these different parts of the United States are having different weather patterns.



*Figure 1. The homepage data visualization to explore different temperatures within the different cities.*

The analytical questions that can be answered by this data visualization is for the homepage, identifying temperature patterns across the different locations provided by the dataset discover similarities and differences across the regions of the United States. The visualization uses a line graph as a way to look at the different trends in temperature across the different parts of the United States, as you can see the fluctuation is consistent and throughout the whole of the United States. I understand that looking at temperature and time might see mundane and basic but this establishes a solidified background on how weather is changing throughout the United States. As you can see in the image there is a dropdown menu where you can select different parts of the United States and is defaulted to Jacksonville, Florida since that is the location that I am trying to focus on.



*Figure 2. Looking at the actual temperature vs. the record max temperature.*

In Figure 2, we will be exploring the changes in temperature of Jacksonville, and to see if there were record hot moments in the state. This is to look at how the temperature is changing over time, and if there is any concern. With this data visualization an individual can discover trends in temperature now, to record temperatures so that they are able to make judgment on how the earth is warming and if there is immediate impact being seen by global warming. As you can see in the data visualization, it is looking at the comparison of the record temperature and the current max temperature of the year that the visualization was recorded (2015). I thought that this was important to add to the system of data visualizations as it allowed for the user to make a comparison on how Jacksonville weather is comparing, to its past. Not being able to have access to past data made it a little harder to tell stories but looking at the record allowed for a user to make distinctions of what was happening in the year of 2015 compared to the other years.

One major fault to this data visualization is the usage of lines within the data visualization. As you can see in figure two all of the data points are connected by lines, this makes it hard to follow the data points at times as it is covering up some of the data. One thing that the line contributes to is that when the line is going up within the Record trendline you can tell that there was a new record set and it was from that year. This data visualization uses the lines, even though they can make the graph convoluted, so that a reader could follow the trends and see what is occurring. One thing that this data visualization communicates well is that the record highs have been significantly higher at times than the current highs and that the data is less fluctuating than looking at the current highs.

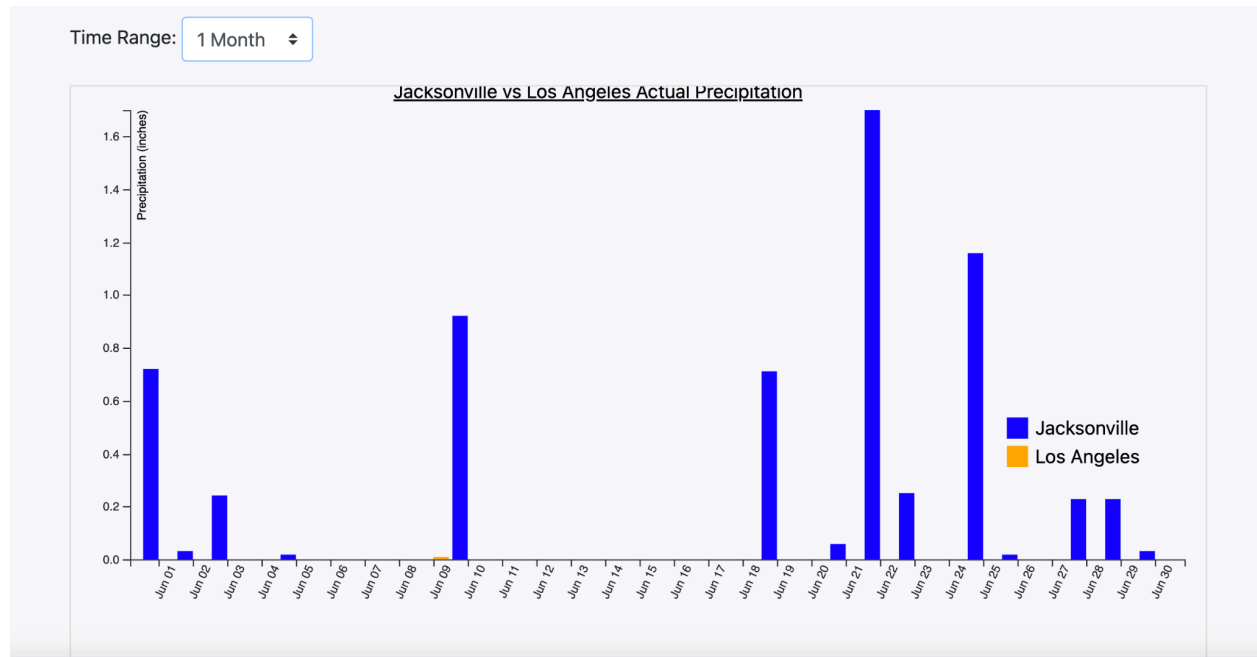


Figure 3. This is showing precipitation within the month of June in Jacksonville and Los Angeles

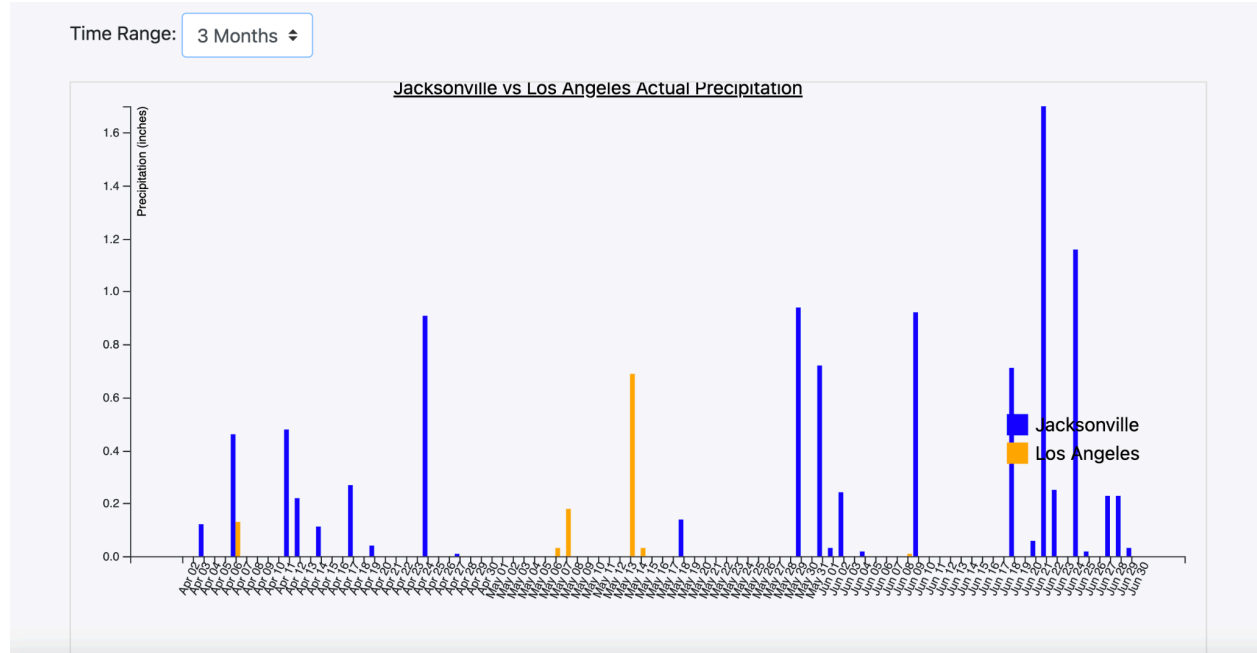


Figure 4. This is precipitation within 3 months of 2015 in Jacksonville and Los Angeles

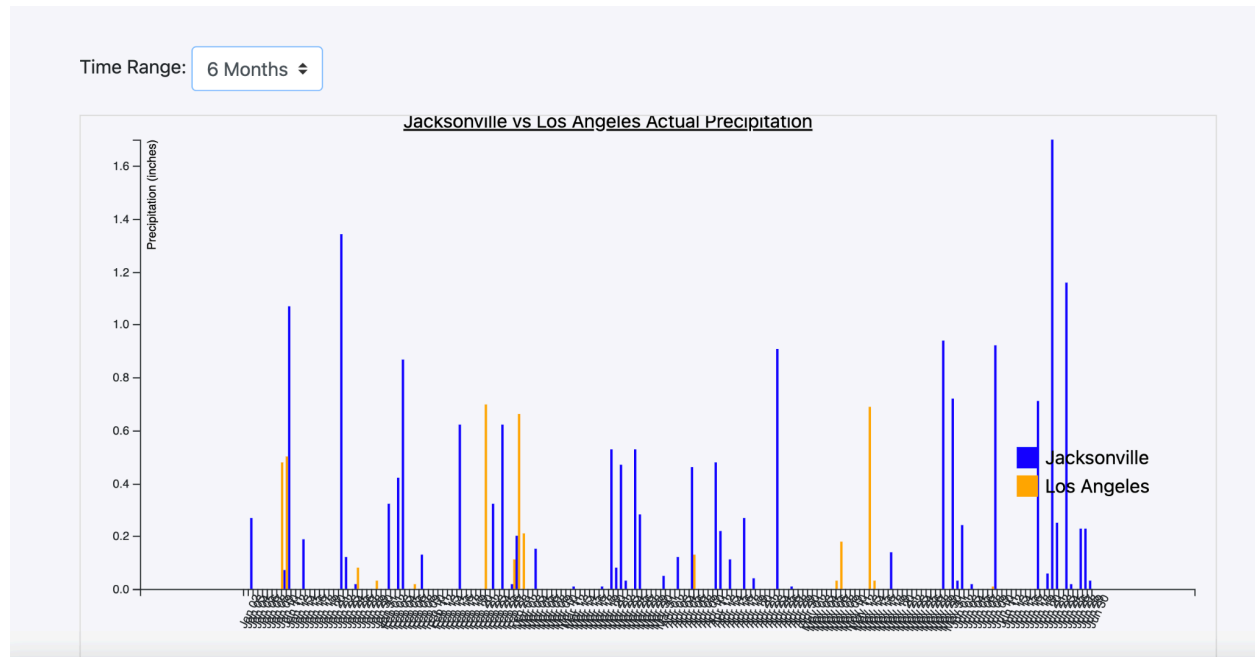


Figure 5. This figure shows within a 6 month period of precipitation of Jacksonville and Los Angeles.

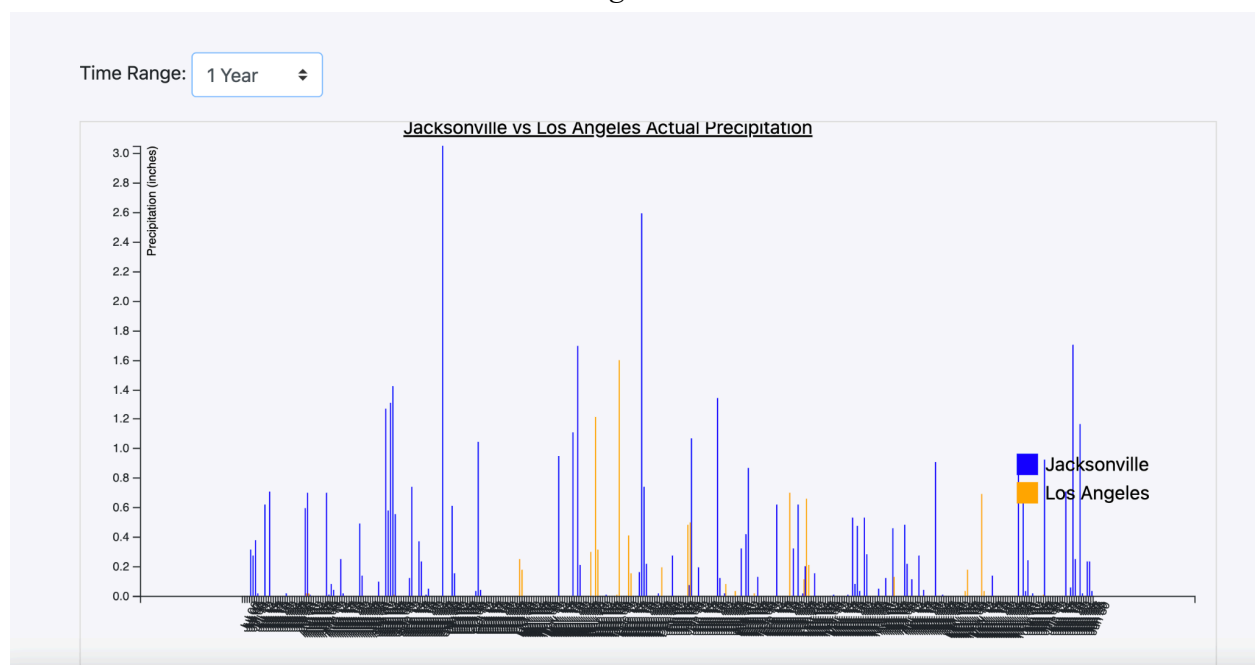


Figure 6. This figure shows within a year the precipitation of Jacksonville and Los Angeles.

Looking at figures 3 through 6 they are showing the precipitation between the different cities, Jacksonville and Los Angeles. This allows for a comparison between the West coast and the East coast and seeing how the precipitation may vary within these different parts of the United States. One thing that seems to be a struggle are the x labels of the dates, since there are so many dates the dates all blend into one, but can be readable at shorter lengths of time. This visualization will allow for an individual to determine how precipitation varies across the

different regions of the United States to see how typography and different sectors of the world are affecting the weather.