Design Overview

For this design challenge I wanted to use a different way to view the weather data: in relation to the city's state flowers. Usually when people think about weather data, they think about weather forecasting, planning trips, what clothes they need to wear to prepare for the weather. For this final deliverable I wanted to connect the proverb April showers bring May flowers with city's weather data and flowers that grow in that state for users to explore the biodiversity across cities in the United States.

Analytical questions this visualization supports are:

- How does precipitation vary across different cities in the United States?
- How does record, actual and average precipitation compare with each other?
- How do each of these factors change across cities?
- Which cities have higher precipitation rates than others?
- How much does precipitation vary throughout the spring months?

The communicative objectives are:

- Presenting weather trends from March to June (the spring season)
- Comparing weather patterns across multiple variables & cities
- Providing context for viewers for the subset of data presented

User Tasks Supported

- Compare different city's precipitation rates
- Compare across different precipitation measures (record, actual, average)
- Display precipitation trends for the spring months for each city
- Introduces users to local plants from each city

User Interface

Introduction Section:

April Showers Bring May Flowers 🌸

The phrase “April showers bring May flowers” is a popular saying used often during the month of April. This is typically the time when the last bit of snow turns to all rain as temperatures climb, and increased rain shower activity sparks the beginning of flowers and plants to really start blooming. (Source 🌸)

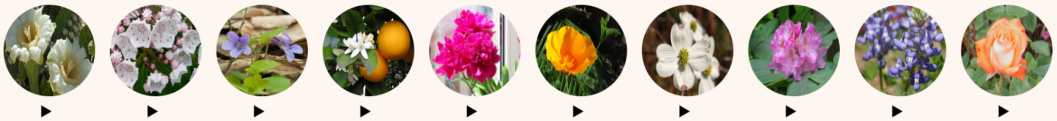
With the spring season typically considered as late-March to late-June, let's examine if this saying holds true with percipitation data across 10 US cities!

City Selection Section:

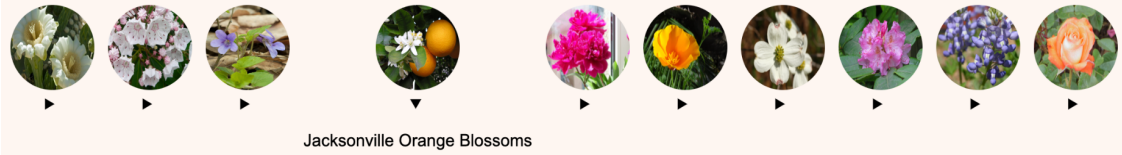
Clicking into the flower’s image will change the graph to the selected flower’s city

Clicking the arrow will expand to show the flower & city name if the user if unfamiliar with them

Select the City's Flower to View Rainfall Trends In the Spring Season



View if a dropdown is selected, name of plant is shown



Line Graph Section:
Adjusts output based on which city/flower is selected: