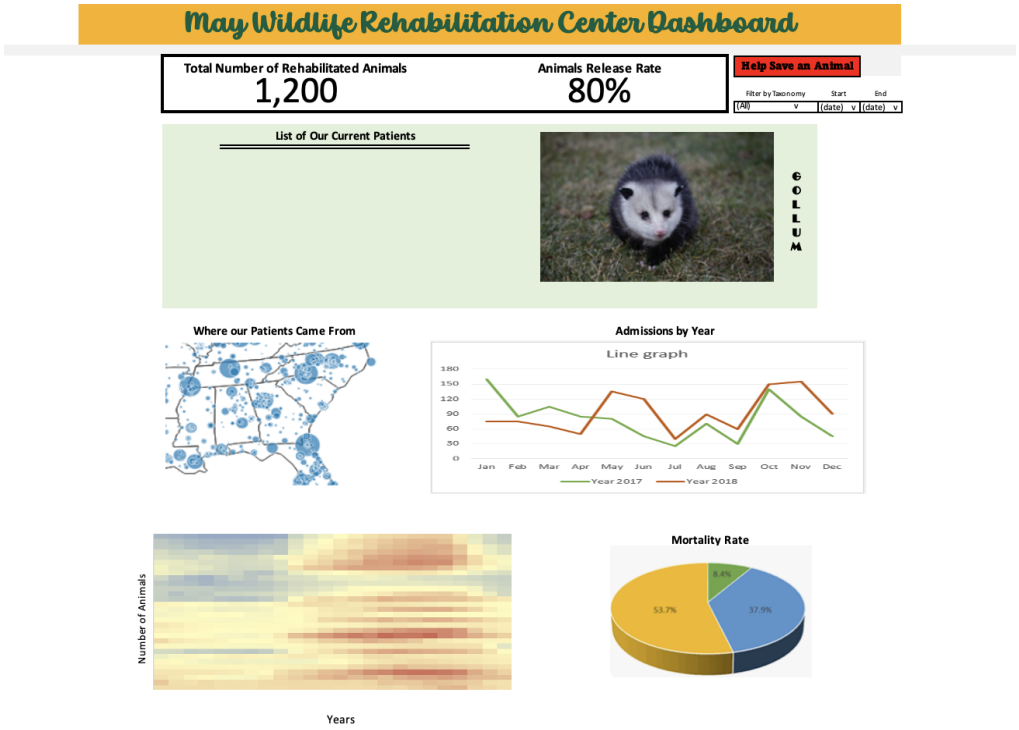
We plan to use patient data from the May Wildlife Rehabilitation center in Banner Elk, North Carolina. This center treats a wide variety of animals with a patient count that typically exceeds 1500 in any given year. With this data, we plan on creating a dashboard that tells a story of the work the center does and how that has changed over time.

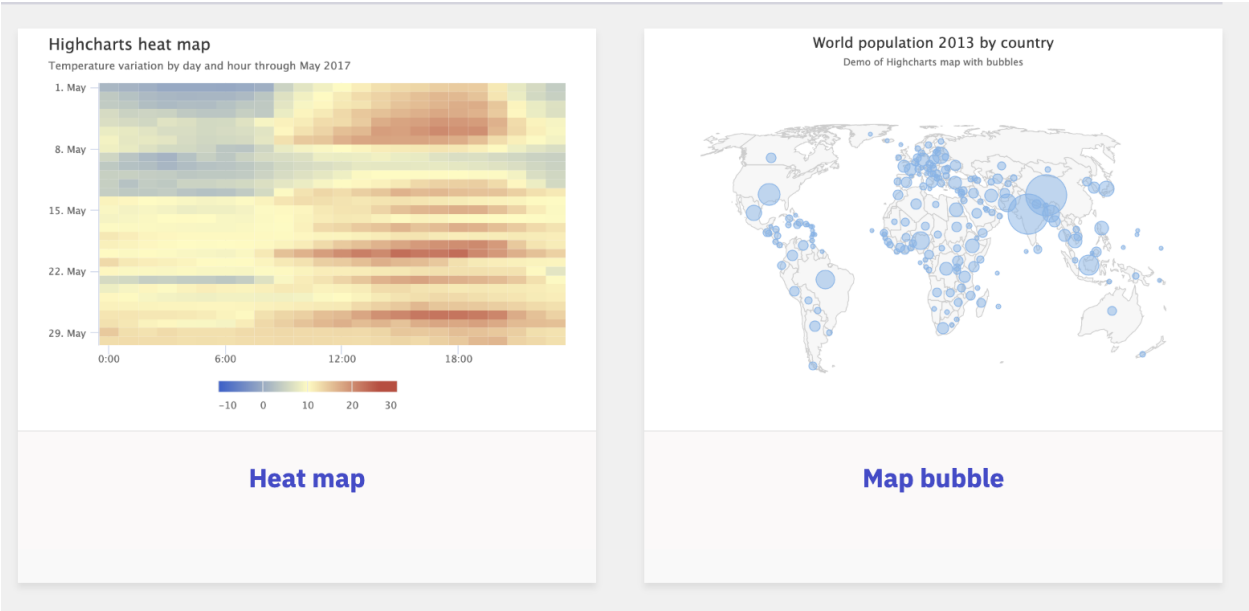
The wildlife center uses a database system called RaptorMed, and we plan on inspecting the schema of the database and pulling relevant information using SQL queries. We will then load this into our own database and make the data accessible via a Flask API. For our dashboard, we have at least three or four visualizations planned. First, we want to show where the animals being treated are coming from. The dataset includes the county in which the patient was found, so a choropleth map that uses the counties as boundaries and shades them by the number of patients is appropriate. We also plan to illustrate the total number of animals and the breakdown of species with a stacked bar chart. We want to calculate the success rate of the center by showing the breakdown of animal outcomes by using some form of a pie chart. Finally, we want to investigate whether there is any cyclical behavior in the frequency of animal intake by creating a line graph or heat map to show how the patient population changes throughout the year.

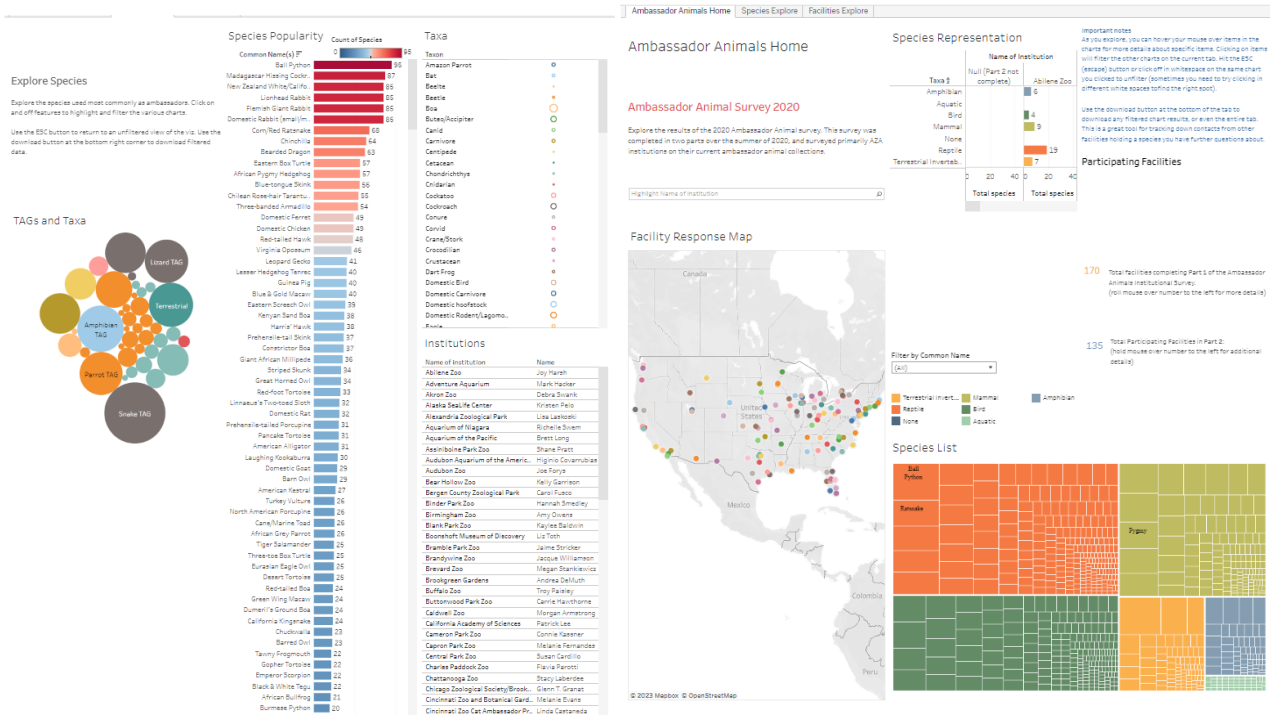
We hope to achieve these results as a baseline of success and add more features as we see fit. The most exciting component of this project is that the data is real and the work benefits a real organization. It is our hope that we can illustrate and emphasize the good work that this center does for local wildlife.

Static Image/Outline of Dashboard:



Inspirational Graphics:





JavaScript Libraries of interest: Highcharts, Leaflet, D3