A photograph of an airplane wing against a sunset sky. The wing is dark and extends from the left side of the frame towards the right. The sky is a gradient of blue and orange, with the sun setting on the horizon. The wing has a green shamrock logo on the tail fin.

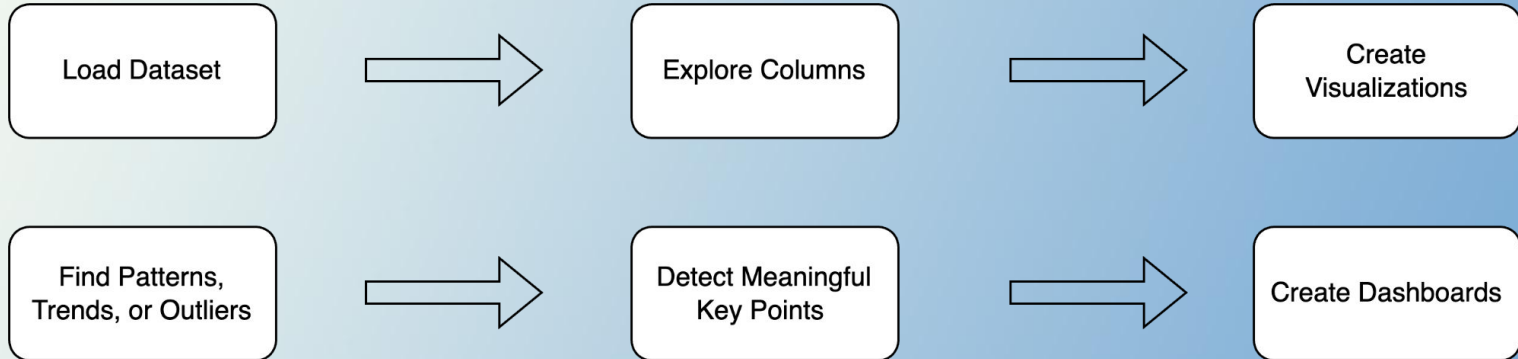
# Data Visualization and Dashboards with Tableau

FAA Wildlife Strikes 2000-2015

Nickolas Stello

# Project Flow Structure

Goal: Analyze a dataset from the Federal Aviation Administration (FAA) regarding wildlife strikes that occurred from 2000 to 2015 in the United States and transform the data into easily understandable visual insights.



# Question 1

Which wildlife category has had the most collisions?

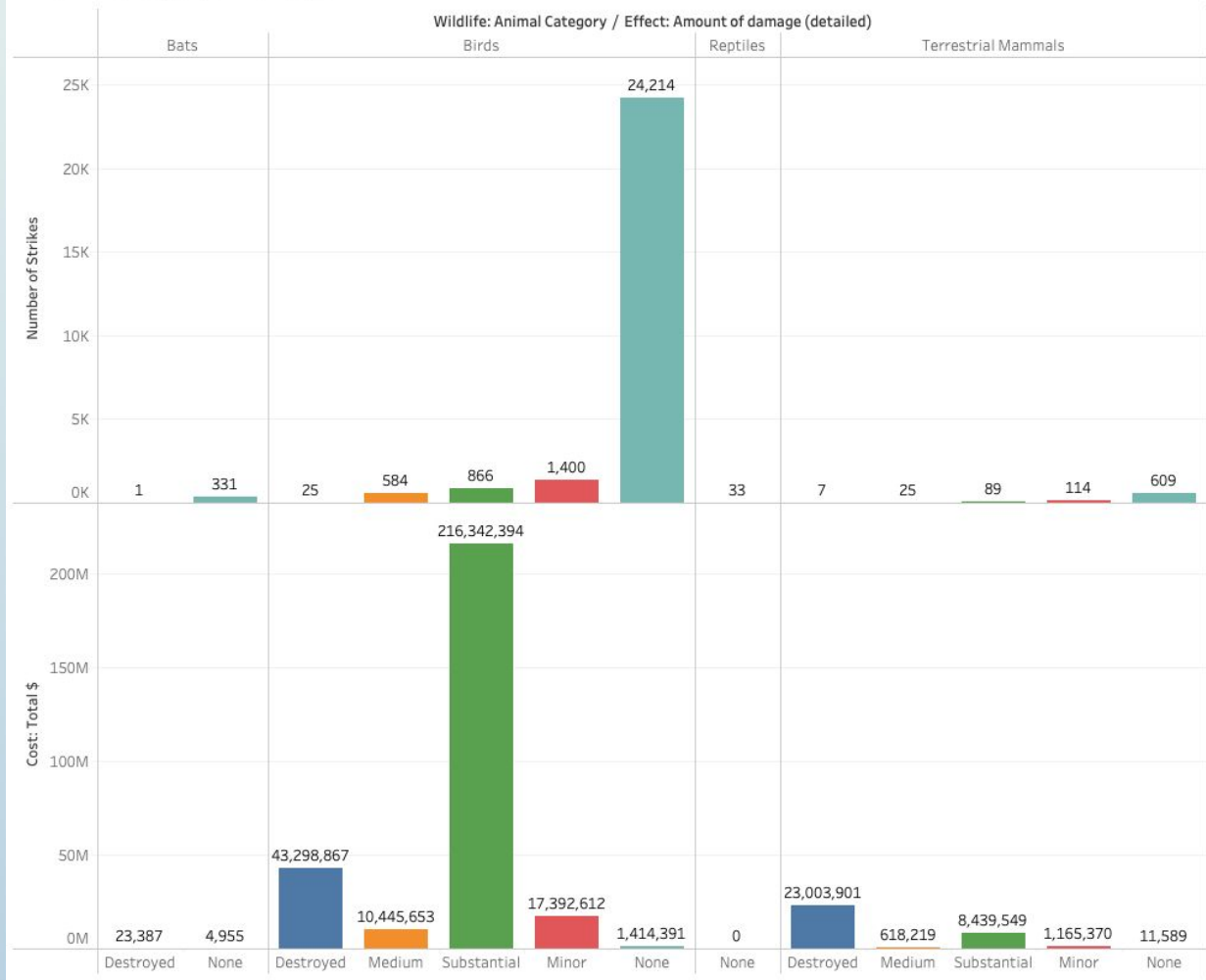
## Wildlife: Category

| Wildlife: Animal Category | % of Total Number of Strikes along Wildlife: A.. | Number of Strikes |
|---------------------------|--|-------------------|
| Birds                     | 95.73%   | 27,089            |
| Terrestrial Mammals       | 2.98%  | 844               |
| Bats                      | 1.17%  | 332               |
| Reptiles                  | 0.12%  | 33                |

# Question 2

What types of damage occurred by wildlife category?

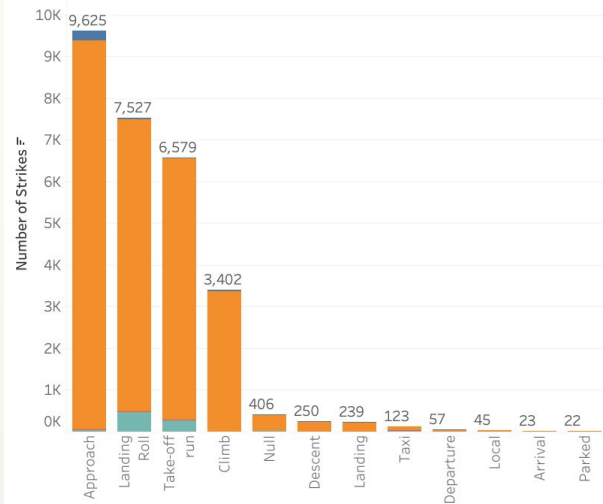
Wildlife Category & Damage



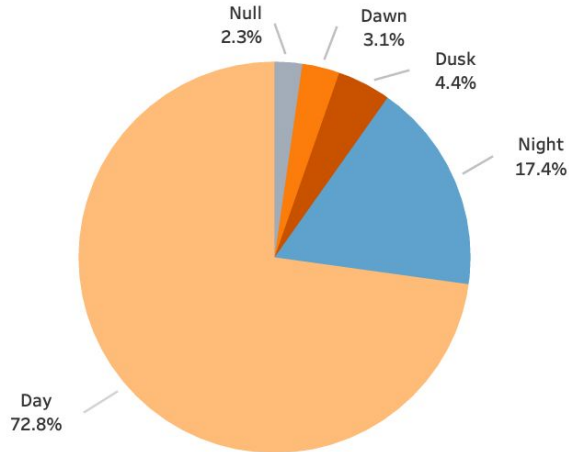
# Question 3

When did the majority of the collisions occur?  
(phase of the flight, time of the day, time of the year)

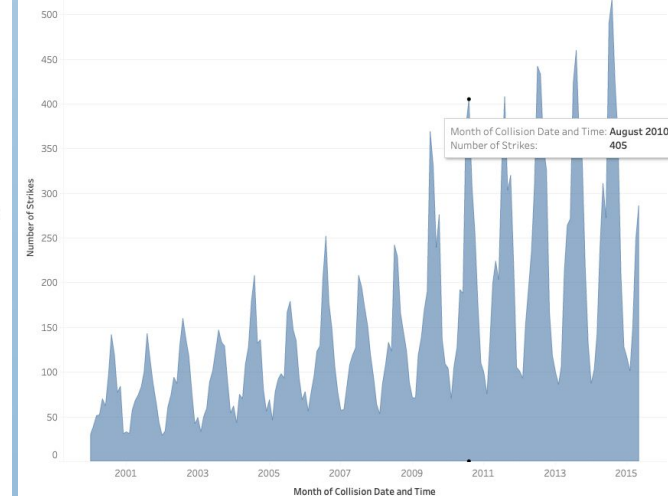
Phase of Flight



Time of the Day

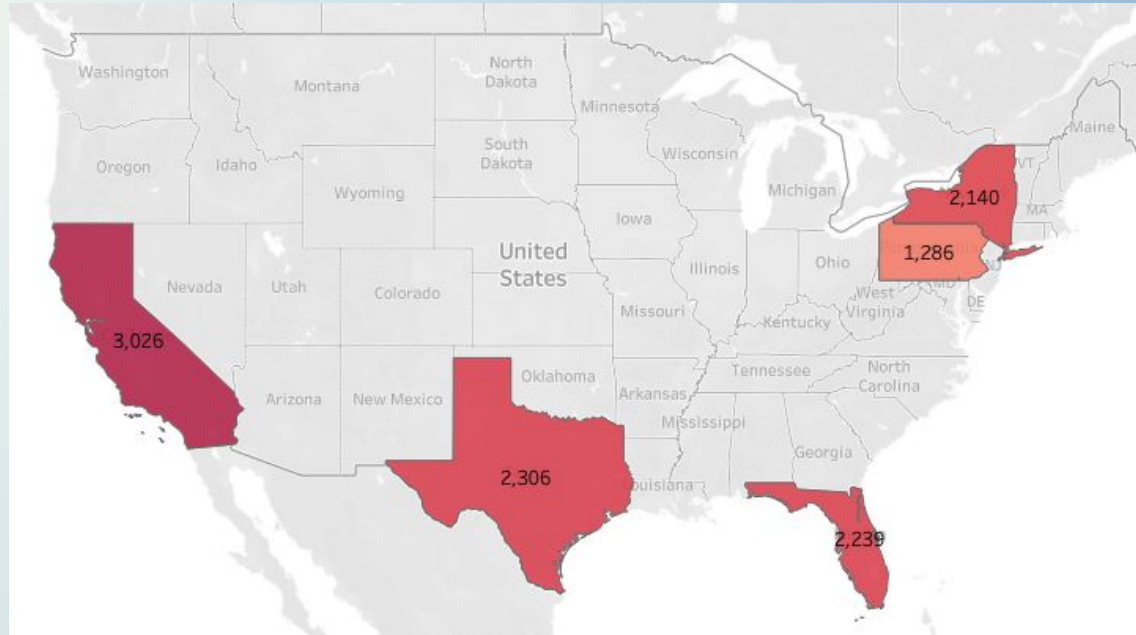


Time of the Year



# Question 4

What are the top five states with the highest number of collisions?

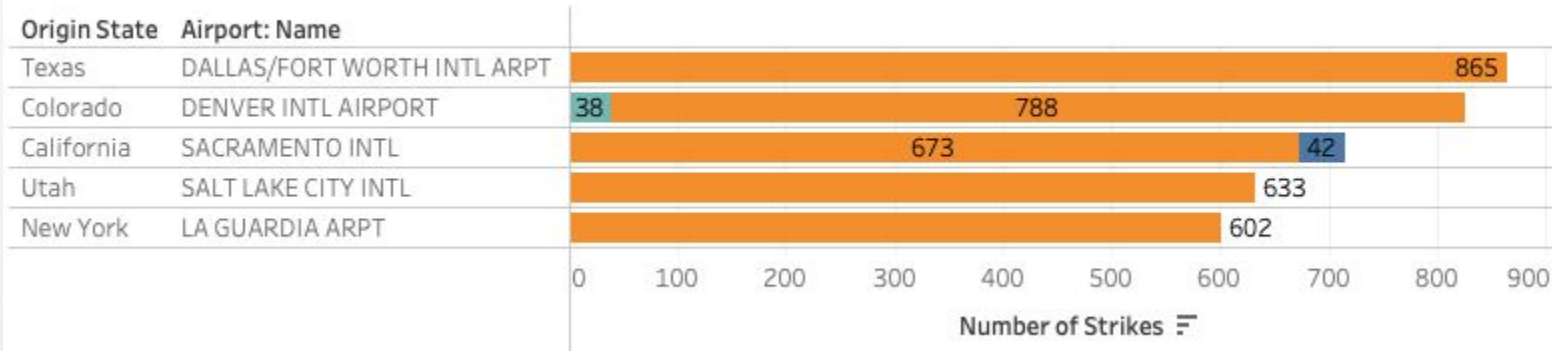




# Question 5

What are the top five airports with the highest number of collisions?

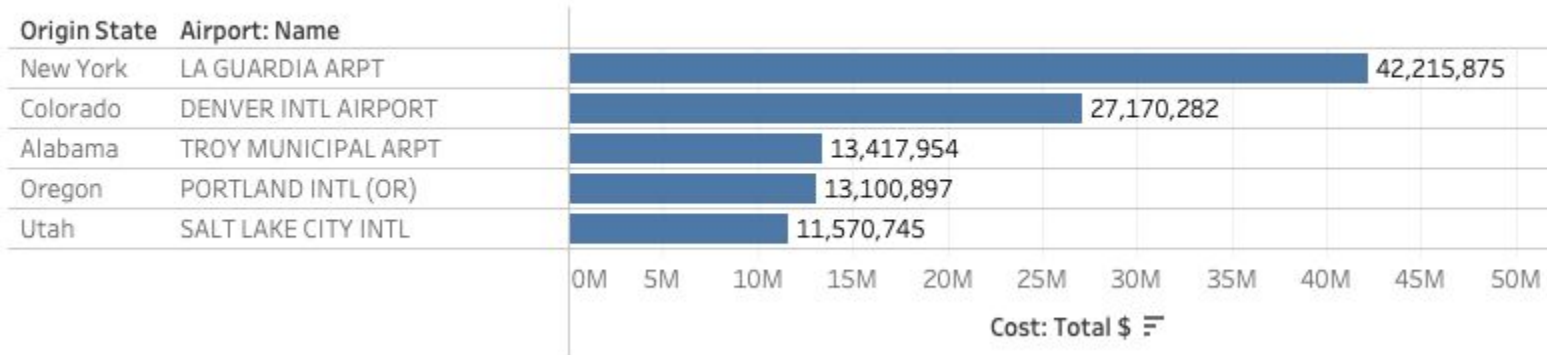
Number of Strikes by Airpot



# Question 6

What are the top five airports with the highest cost caused by collisions?

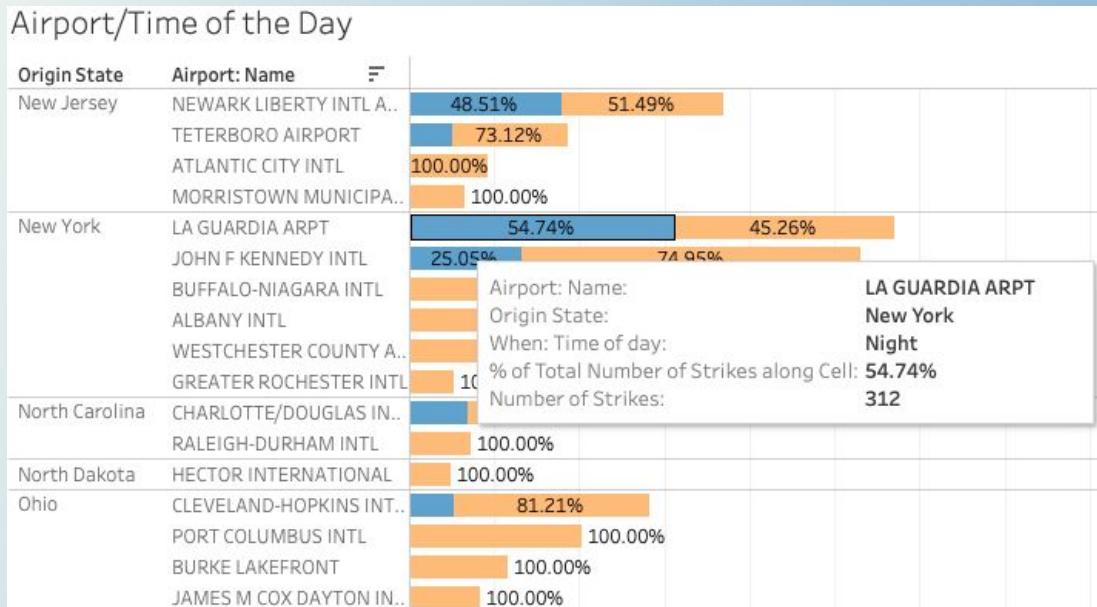
Cost By Airport





# Outlier 1

LaGuardia Airport in NY is the only airport with more collisions at night than during the day.



# Outlier 2

Despite having only 2 collisions, Troy Municipal Airport in AL ranks third in terms of cost.

## Cost By Airport



# Challenges

Due to Tableau's high level of customization, it can be challenging to find specific tools or perform certain tasks. The abundance of options can sometimes be overwhelming.

# Future Goals

Given more time, it would be interesting to analyze the number of flights per airport per year to provide additional context to the number of collisions.





# Thank you!



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