A photograph of an airplane wing against a blue sky with a soft sunset or sunrise glow on the horizon. The wing is white with a green shamrock logo on the vertical stabilizer.

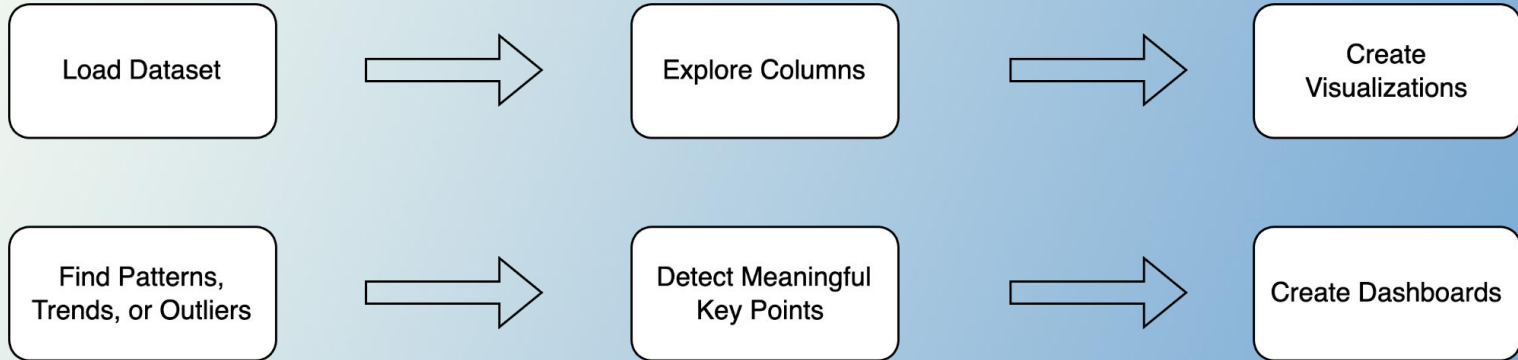
# Data Visualization and Dashboards with Tableau

FAA Wildlife Strikes 2000-2015

Nickolas Stello

# Project Flow Structure

Goal: analyze a dataset from the Federal Aviation Administration regarding wildlife strikes from 2000-2015 in the United States and turn the data into easily consumable visual insights.



# Question 1

What kind of wildlife category has had more collisions?

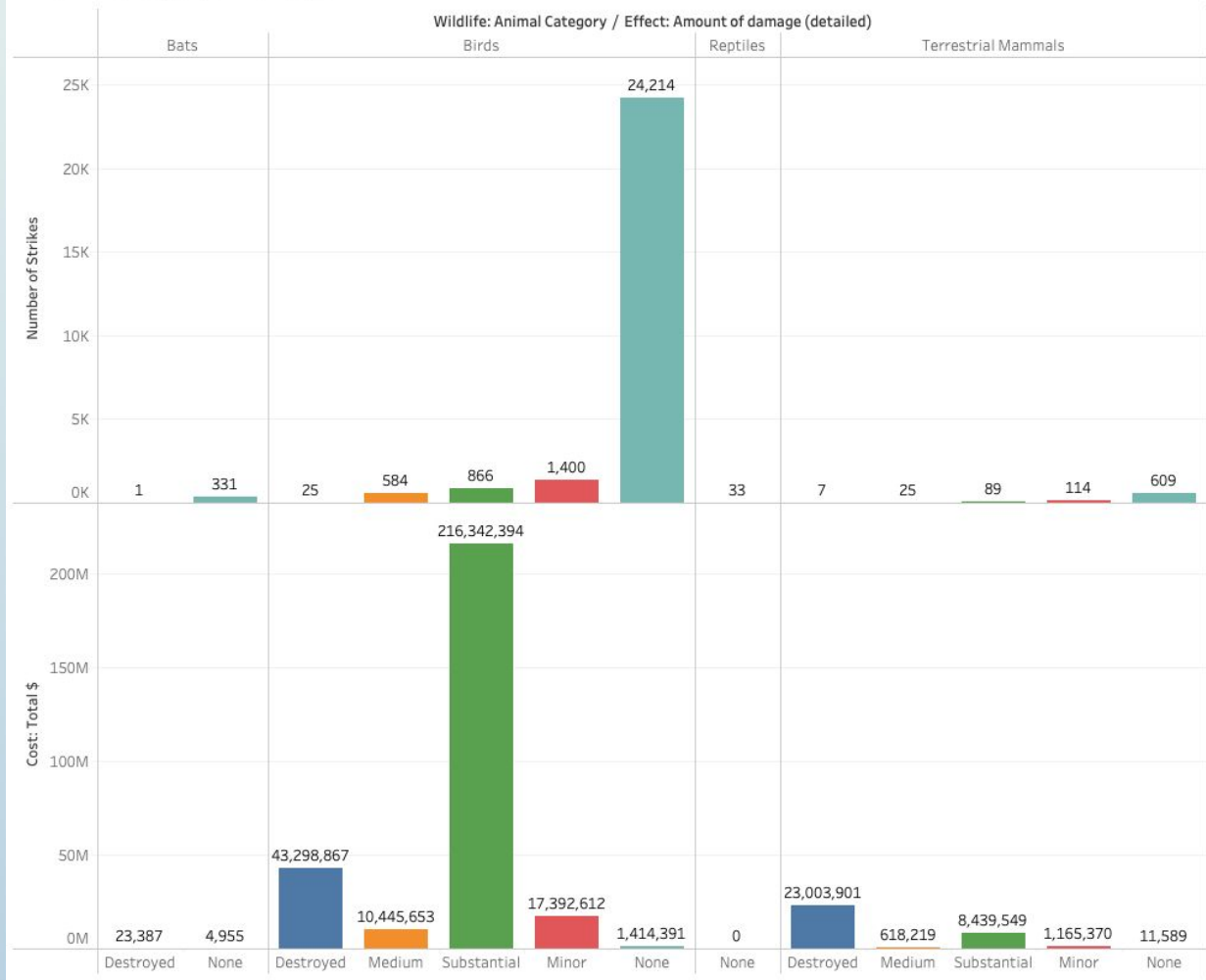
## Wildlife: Category

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 kind of damage occurred by wildlife category?

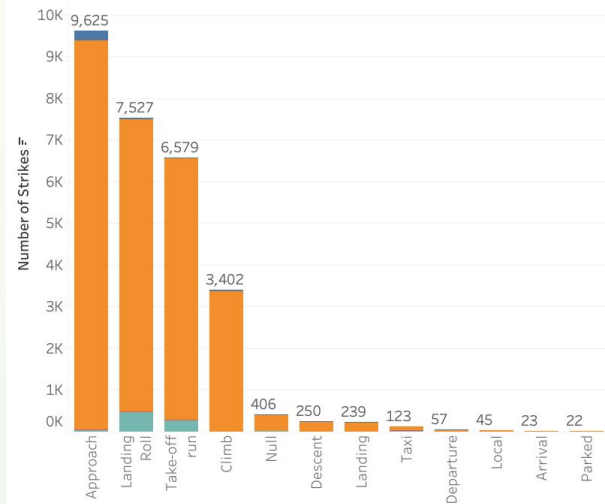
Wildlife Category & Damage



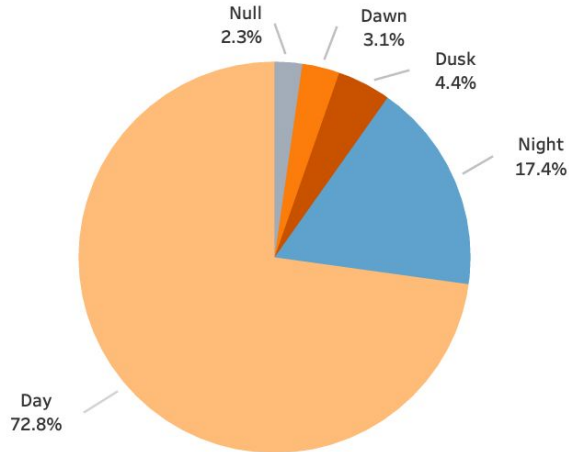
# Question 3

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

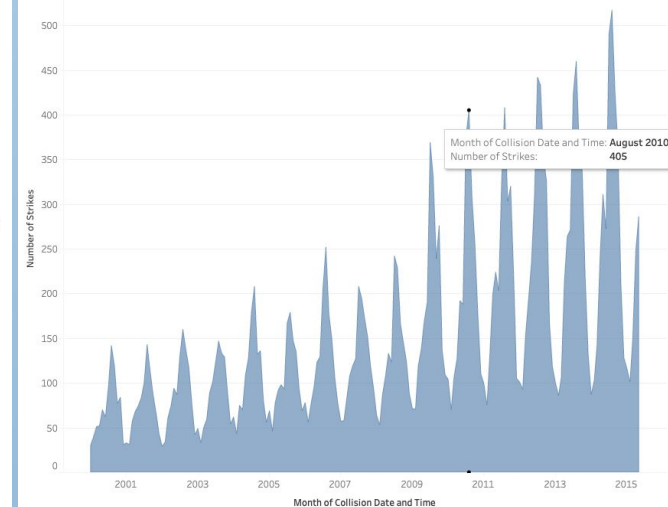
Phase of Flight



Time of the Day

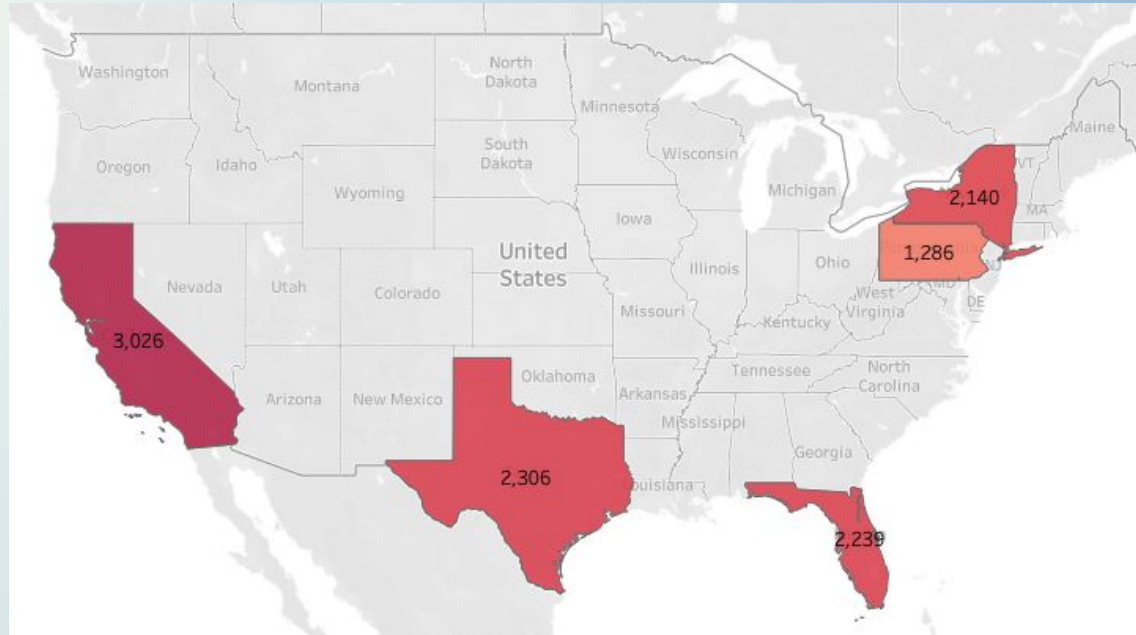


Time of the Year



# Question 4

Top five states with the highest number of collisions.

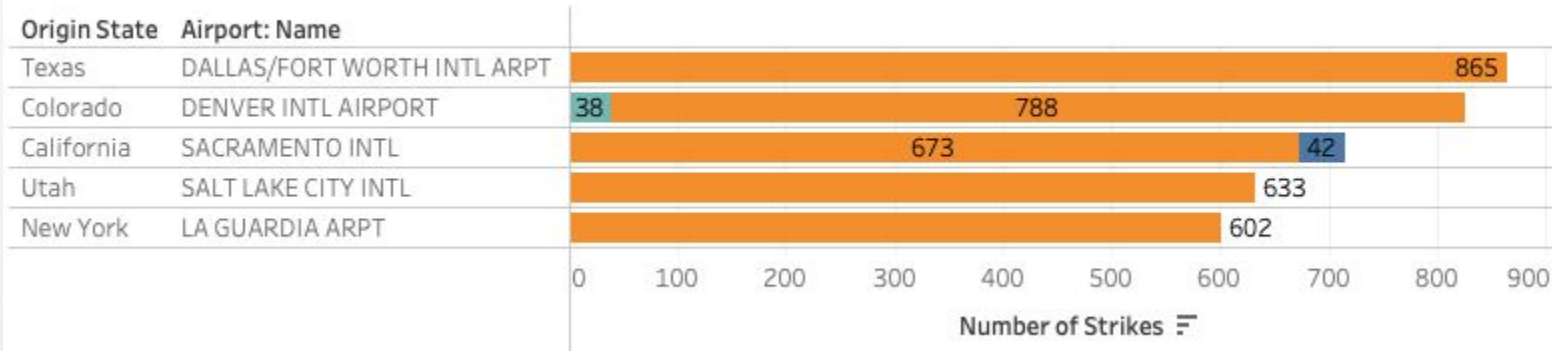




# Question 5

Top five airports with the highest number of collisions.

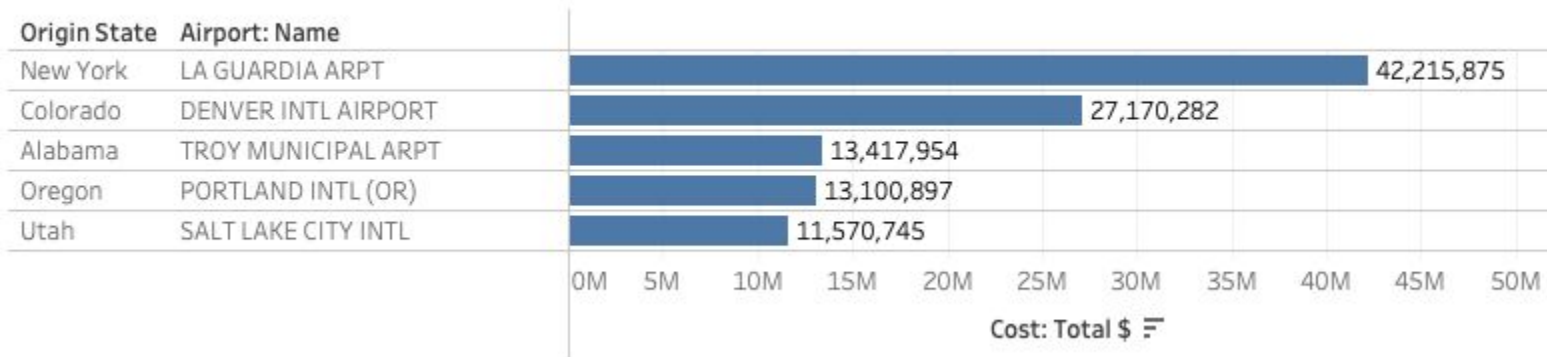
Number of Strikes by Airpot



# Question 6

Top five airports with the highest cost caused by collisions.

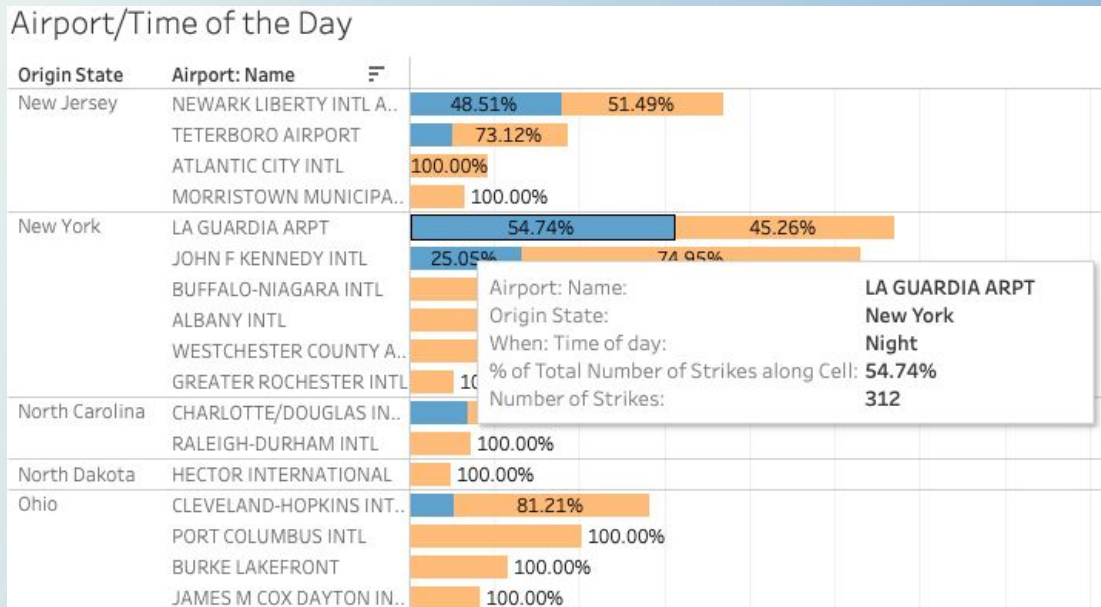
Cost By Airport





# Outlier 1

Of all airports, LaGuardia Airport - NY is the only airport that had more collisions during the night than during the day.



# Outlier 2

Even though Troy Municipal Airport - AL had only 2 collisions, it is the third airport with the highest cost.

## Cost By Airport



# Challenges

Since Tableau is highly customizable, sometimes is hard to find a specific tool or how to do certain tasks. Occasionally Tableau gives the impression of having too many options.

# Future Goals

If more time was available, it would be interesting to find the number of flights per airport per year to give the number of collisions more context.





Thank you!



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