

# 1st viz: Airline Codes and Delay in their Occurrence

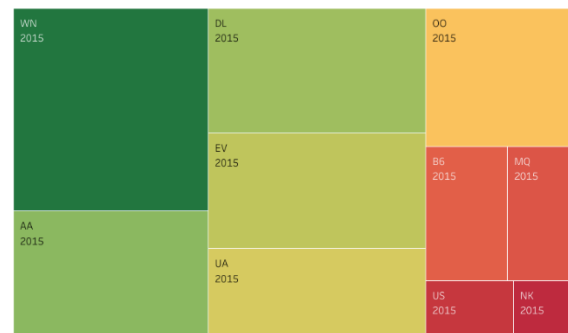
## Dashboard:

### Airline System Review

#### Airline Code

Airline	Iata Code	Abc
Alaska Airlines Inc.	AS	Abc
American Airlines Inc.	AA	Abc
American Eagle Airlines Inc.	MQ	Abc
Atlantic Southeast Airlines	EV	Abc
Delta Air Lines Inc.	DL	Abc
Frontier Airlines Inc.	F9	Abc
Hawaiian Airlines Inc.	HA	Abc
JetBlue Airways	B6	Abc
Skywest Airlines Inc.	OO	Abc
Southwest Airlines Co.	WN	Abc

#### Airline Delay



## Link:

[https://public.tableau.com/app/profile/chaitnya.rohilla/viz/Book1\\_17288958021510/Dashbord1](https://public.tableau.com/app/profile/chaitnya.rohilla/viz/Book1_17288958021510/Dashbord1)

## Summary:

This dashboard contains a chart and a table of the number of delays that happened in the flights in the year 2015.

The table shows the name of airlines with their given codes.

The treemap shows the flights with their number of delays that occurred in 2015 with Southwestern Airlines having the largest number of delays whereas Southwestern Airlines had the largest number of delays in 2015.

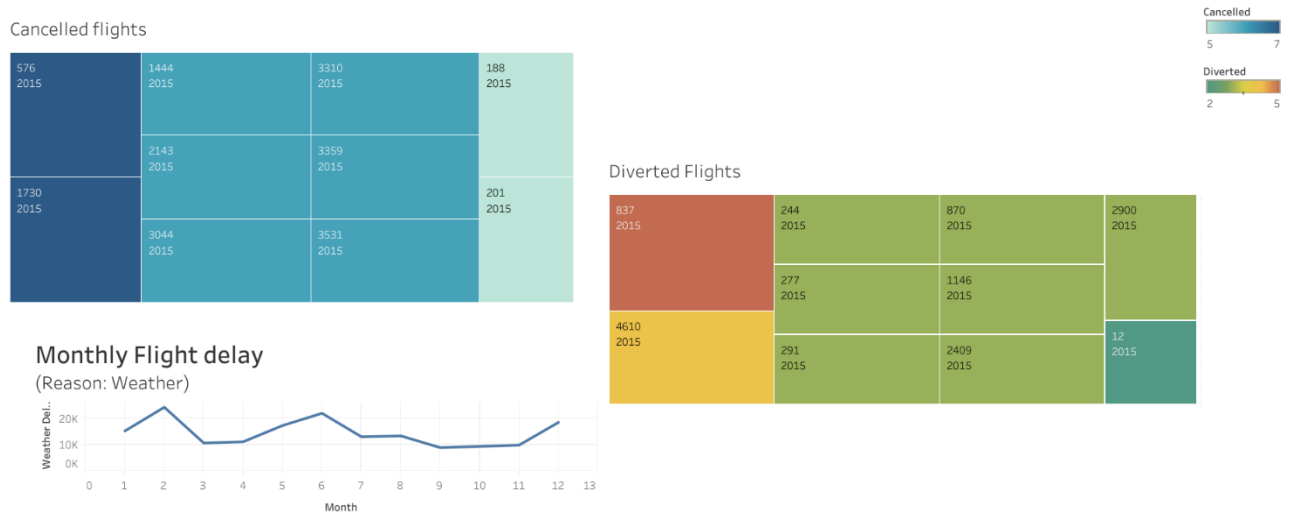
In this chart, I chose to use color encoding to represent the reason for cancellation. The color palette is chosen carefully to not causing distraction or eye blindness (red/green).

## Resources:

N/A

## 2nd viz: Airline Delay and Cancellation

### Dashboard:



### Link:

<https://public.tableau.com/app/profile/chaitnya.rohilla/viz/ContinuationofBook2/Dashboard4>

### Summary:

This dashboard contains three graphs which illustrates the number of flight cancellations, diversions, as well as monthly delays that occurred in 2015.

The first tree map showcases the flight number and the number of times it was cancelled in the year 2015, with flight number 576 cancelled the maximum number of times, that is 7.

The second tree map showcases the diversions caused in the flight route that occurred in the year 2015, with flight number 837 having the most number of diversions.

The line graph showcases the delays that happened in between month 1 to month 12 of the year 2015 due to the weather conditions.

In these charts, I chose to use color encoding to represent the reason for cancellation. The color palette is chosen carefully to not causing distraction or eye blindness (red/green).

For the monthly flight delay graph, I chose the pattern of line graph to showcase the relation between the change of harsh weather conditions and the flight delays.

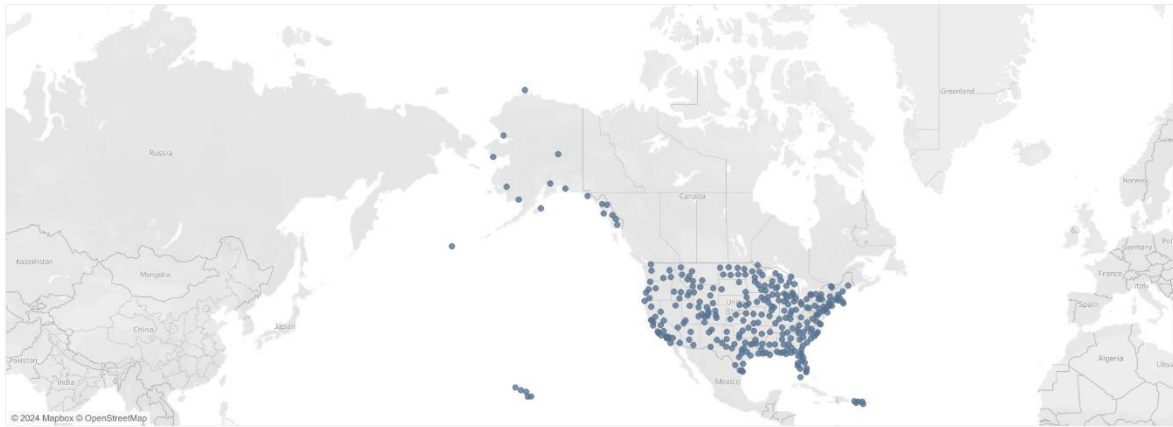
## Resources:

N/A

## 3rd viz: Locations of all the Airports in U.S.

## Dashboard:

*Airports in U.S.*



## Link:

[https://public.tableau.com/app/profile/chaitnya.rohilla/viz/Book2\\_17288959760760/Dashboard3](https://public.tableau.com/app/profile/chaitnya.rohilla/viz/Book2_17288959760760/Dashboard3)

## Summary:

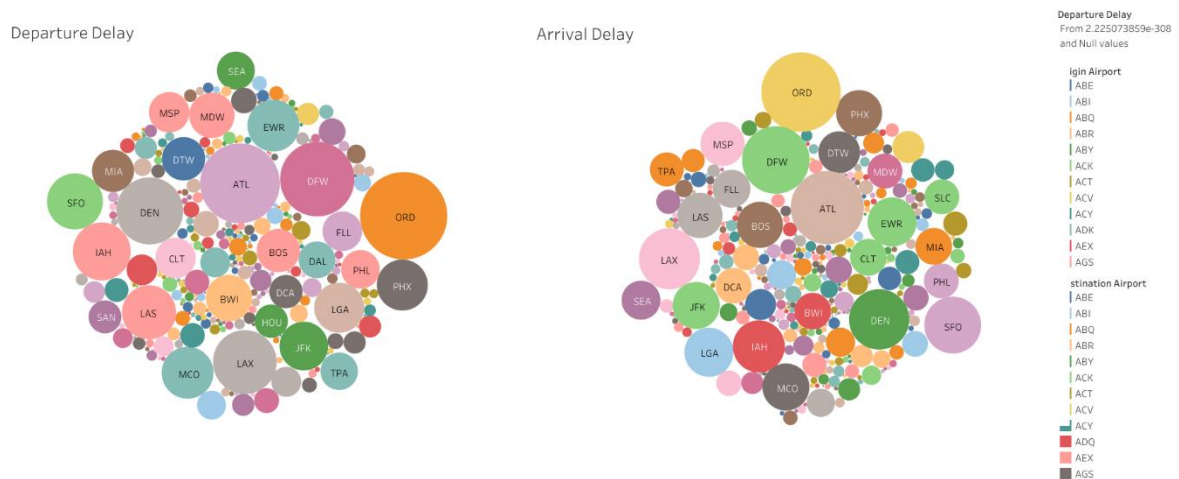
This dashboard showcases the location of various airports present in the United States.

## Resources:

N/A

## 4th viz: Arrival and Departure Delay

### Dashboard:



### Link:

<https://public.tableau.com/app/profile/chaitnya.rohilla/viz/ContinuationofBook2/Dashboard4>

### Summary:

In this dashboard, I have created two bubble graphs to display the delay in departure as well as in arrival.

I chose to create bubble graph as I wanted to include every airport possible with its departure and arrival delay displayed in a sophisticated manner.

I chose this color palette to represent the different number of airports that are present in the United States. The color palette is chosen so as not to cause distraction or eye blindness.

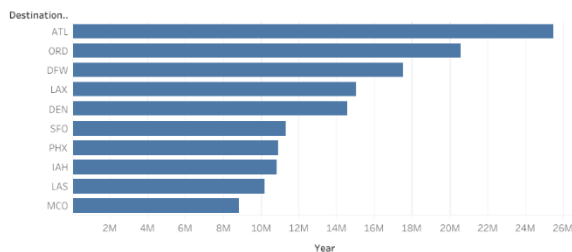
### Resources:

N/A

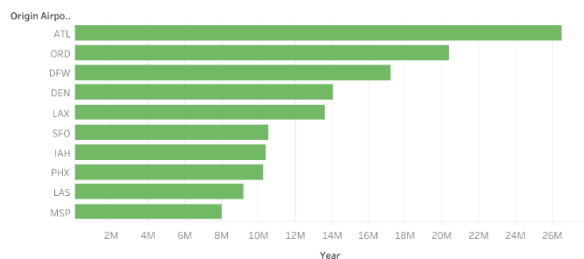
## 5th viz: Scheduled Arrival and Departure

### Dashboard:

Scheduled Arrival



Scheduled Departure



### Link:

<https://public.tableau.com/app/profile/chaitnya.rohilla/viz/ContinuationofBook2part2/Dashboard5>

### Summary:

In this dashboard, I chose to display the scheduled arrival as well as scheduled departure of flights from the airports in the form of a Gantt chart.

The first gantt chart is used to display the scheduled arrival of various flights to the designed airports. It is highly noticeable that the airport with the code name ATL has the most scheduled arrival.

The second Gantt chart is used to display the scheduled departure of various flights from the origin airport. From the graph it can be noticed that it is ATL also that has the maximum number of scheduled departure.

### Resources:

N/A