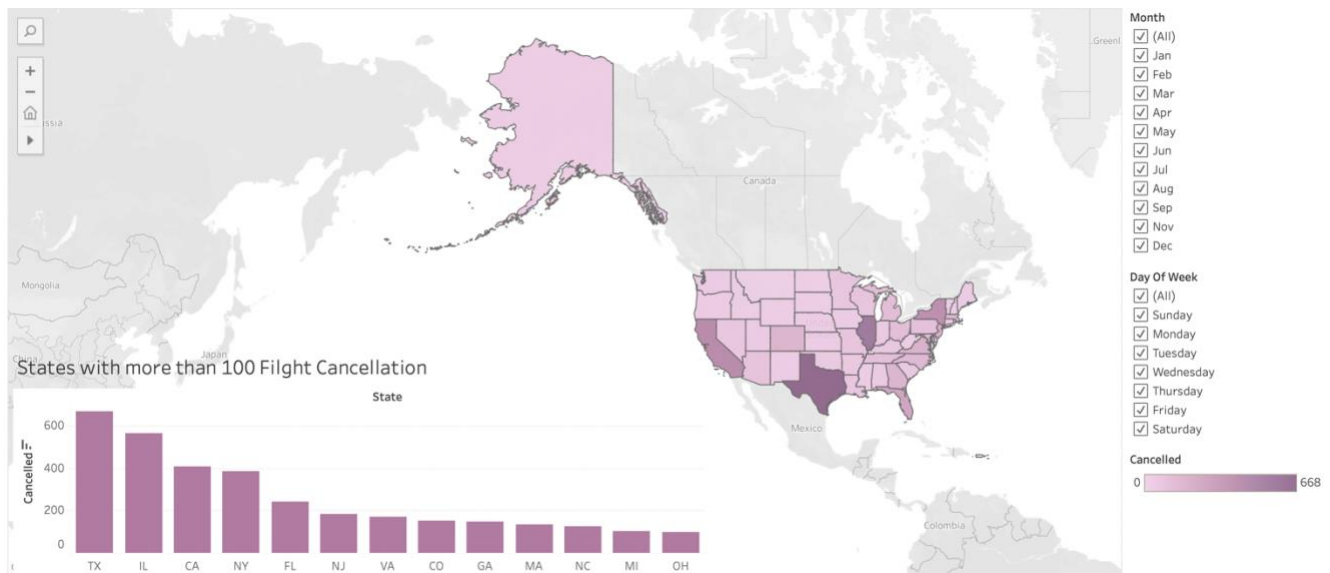


## 1<sup>st</sup> Viz: Flight Cancellations



### Dashboard Link:

<https://public.tableau.com/app/profile/munera.alrajhi/viz/CancellationFlightsDashbored/CancellationDashbored?publish=yes>

### Insights:

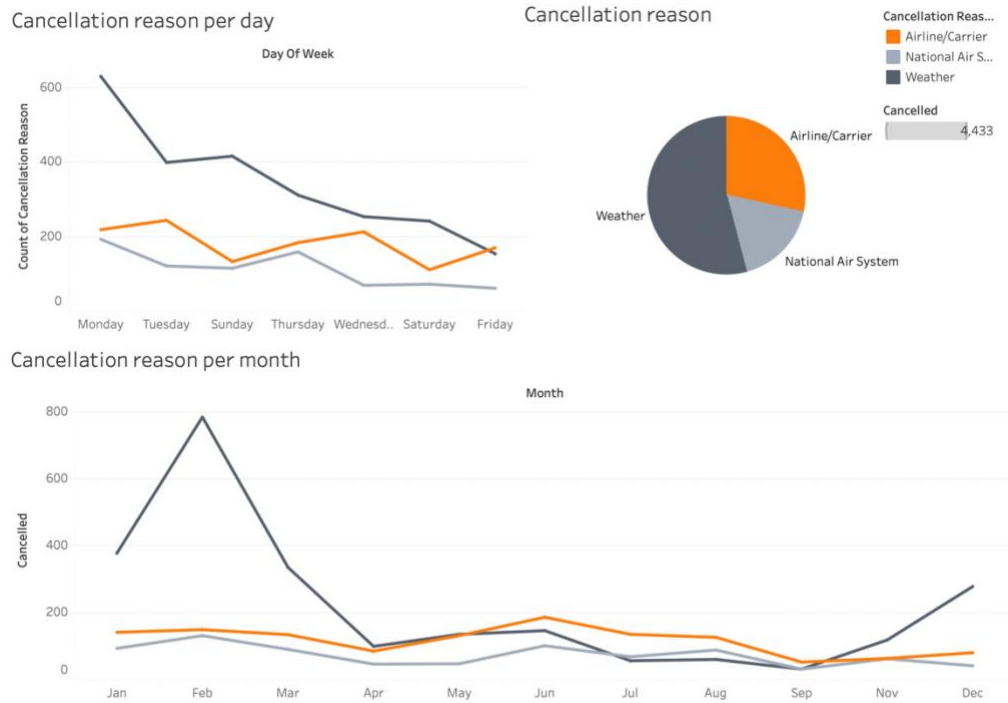
As shown in the dashboard, it contains both Map and Bar chart for flight cancellations in the US in 2015.

- **Firstly**, From the Map Chart, the darker color indicates a high number of cancellations, the lighter the color gets the less the number of cancellations it indicates, and in the provided map, it appears that The State of Texas registered the highest number of canceled flights in 2015 with 668 canceled flights.
- **Secondly**, from the bar chart, it appears that we have 13 States with more than 100 flight cancellations, the state of Illinois comes second after Texas with 563 canceled flights.

### Design Choice:

I choose the Map chart because I see it as the best way to represent all states in one chart without the need to scroll back and forth if we chose a bar chart for example and it is more eye-appealing, in mean I choose bar chart to represent the states with more than 100 flight cancellations to make it easier to detect and compare between states, I tried to avoid any colors that might cause any distraction or problem for an eye-blindness. I added 2 filters as well for both months and days to make it easier to dig deeper into the charts.

## 2<sup>nd</sup> Viz: Flight Cancellations Reasons:



### Dashboard Link:

[https://public.tableau.com/app/profile/munera.alrajhi/viz/CancellationReasonsDashbored\\_16713159868280/Dashboard2?publish=yes](https://public.tableau.com/app/profile/munera.alrajhi/viz/CancellationReasonsDashbored_16713159868280/Dashboard2?publish=yes)

### Insights:

As shown in the dashboard, it contains different charts for flight cancellations reasons in the US in 2015.

- **Firstly**, from the pie chart, it appears that there are 3 reasons for cancellations, more than 50% of flight cancellations were due to bad weather.
- **Secondly**, from the bar chart, it's noticeable that February has the highest cancellation rate with 1058 canceled flights, while there were no canceled flights in October.
- **Lastly**, moving to the line chart, it indicates that many flight cancellations happen on Mondays due to the bad weather while Fridays have fewer flight cancellations.

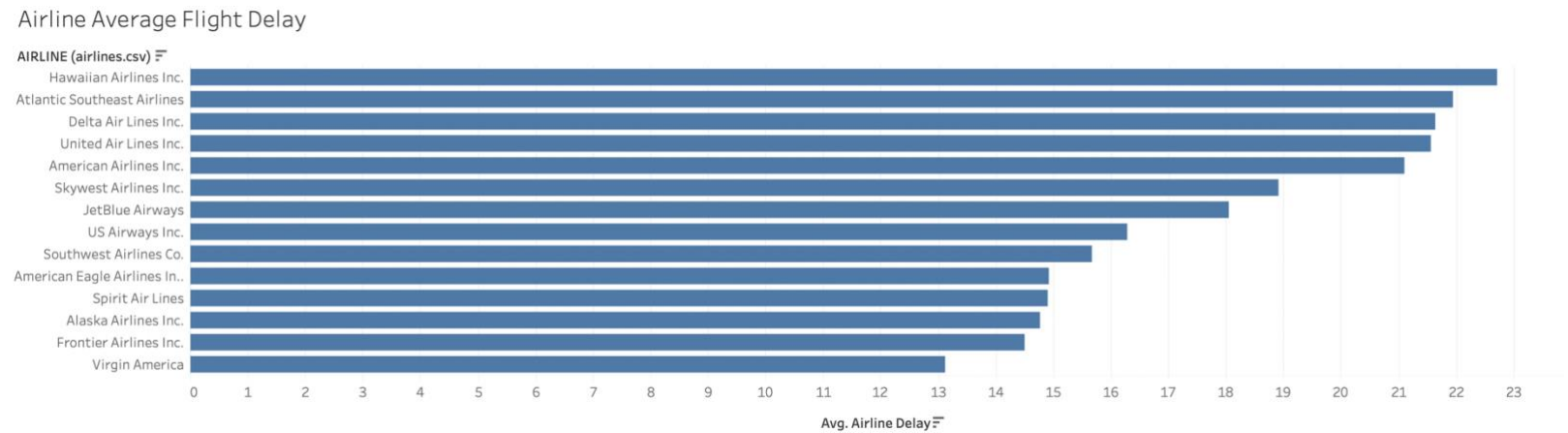
### Design Choice:

I chose the color-blind plate to make the dashboard more readable the eye-appealing, and I add the cancellation reasons filter to facilitate the process of filtering data per reason.

### Resources:

N/A

### 3<sup>rd</sup> Viz: Airline Average Flight Delay



#### Dashboard Link:

<https://public.tableau.com/app/profile/munera.alrajhi/viz/AirlineAverageFlightDelayDashboard/AirlineAverageFlightDelay?publish=yes>

#### Insights:

The purpose of this chart is to find the Airline's average flight delay, it can be noticed that the range of average flight delay is between 13 and 22, and among 14 Airlines, Hawaiian Airlines Inc. had the highest average flight delay with 22.

#### Design Choice:

I chose the horizontal bar to fit all the Airlines without making it eye-disturbing, as well as I chose this color to be more appealing and eye-blind friendly.

#### Resources:

N/A