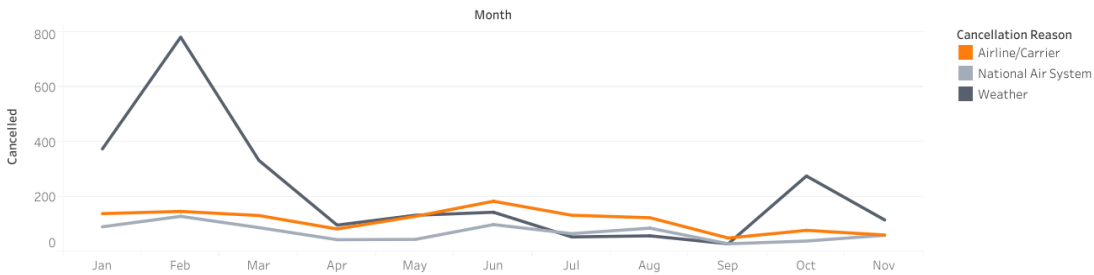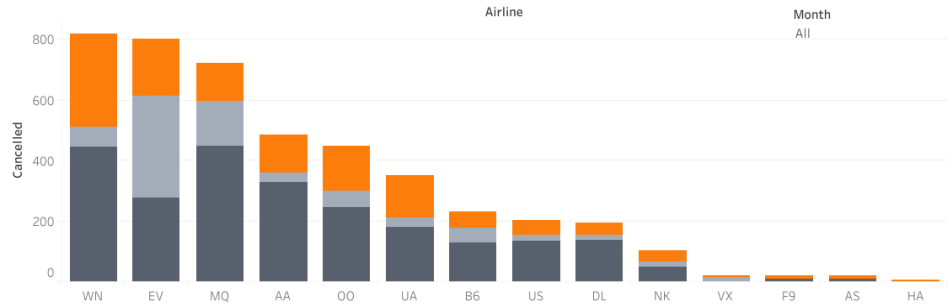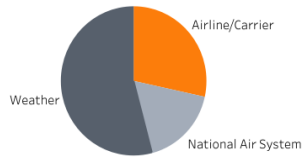# Dashboard: Flight cancellation

Summary:

The dashboard presents three visualizations examining flight cancellations in the United States during 2015. The first is a pie chart that identifies weather as the primary driver of flight cancellations, accounting for 2,397 incidents, followed by airline/carrier factors at 1,260 cancellations, and finally the national air system.

The second visualization is a line chart tracking flight cancellations over the year. This shows a peak in cancellations during February, likely due to weather-related disruptions, while the lowest number of cancellations occurred in September.

The final chart is a bar graph that analyzes flight cancellations by airline. This highlights Southwest (WN) as the carrier with the highest number of cancellations over the year, while Hawaiian Airlines (HA) experienced the fewest. The bar chart also allows for examination of the underlying factors behind the cancellations, with the ability to filter the data by month.

Design:

The dashboard utilizes an appropriate color palette that avoids distractions and considers accessibility for those with visual impairments. The pie chart effectively categorizes the reasons for flight cancellations and quantifies the total number of cancellations for each factor. The line chart allows for clear tracking of flight cancellation trends over the year. The bar chart provides a breakdown of flight cancellations reasons by airline. This enables analysis of which carriers experienced the highest and lowest cancellation rates. The ability to filter the data by month further enhances the understanding of how cancellation reasons and volumes varied over the year.

Link: https://public.tableau.com/views/Flightcancellation11/Dashboard1?:language=en-US&publish=yes&:sid=&:display_count=n&:origin=viz_share_link

Resource : N/A

Visualization1: Airline delay by state

Airline delay by state
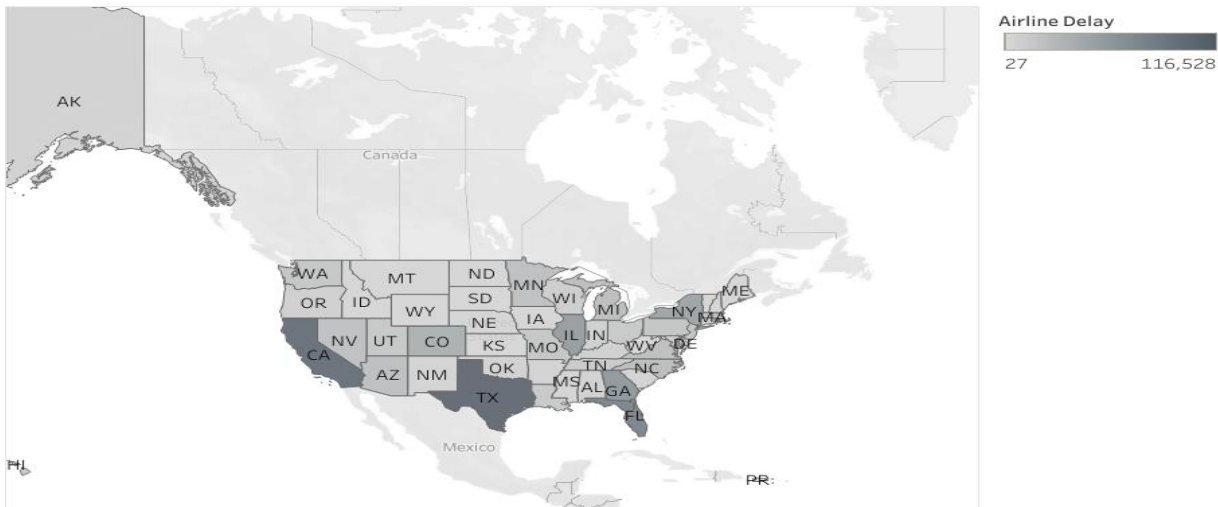
Summary:

This visualization depicts the U.S. states with the highest levels of airline delays in 2015. The lightest shaded areas represent the states with the fewest airline delays, while the darkest shaded areas indicate the states that experienced the most significant airline delays. Based on the data shown, Texas and California emerged as the states with the highest airline delays.
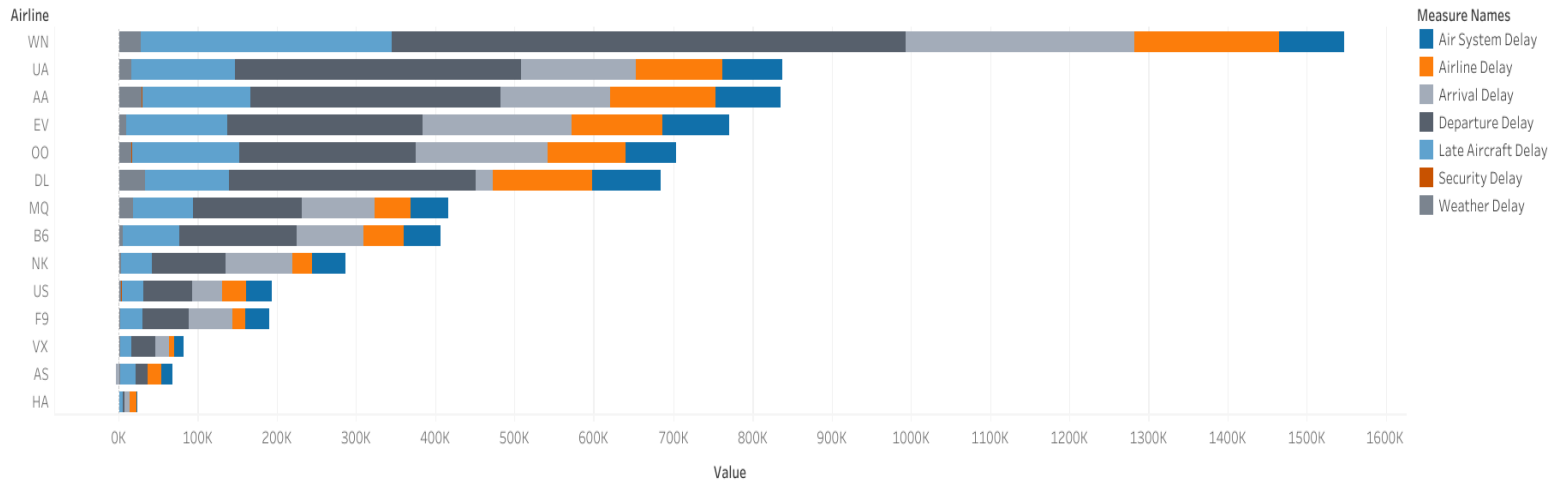
Design:

I used the map, to effectively leverage the variation in color intensity across the map to clearly communicate the relative levels of airline delays in each state. This approach allows the viewer to quickly and easily interpret the information presented in the visualization.

Link: https://public.tableau.com/views/AVEDELAIR12/Avergeairlinedelaybystate?:language=en-US&publish=yes&:sid=&:display_count=n&:origin=viz_share_link

Resource: N/A

Visualization 2: Delay types of each airline

Delay types of each airline

Summary:

The visualization shows the delay rates of each airline and the delay types. The highest delay is WN airline. the lowest delay is HA.

Notably, among the delay types of airlines, the most common delay type was departure delays.

Design:

I used stacked bar char to provide a clear and concise visualization of the delay types for the different airlines, allowing for easy comparison of the delay types and magnitudes across the various carriers.

Link:
https://public.tableau.com/views/DTA_1716806568200/Airlinedelaybytype?:language=en-US&publish=yes&:sid=&:display_count=n&:origin=viz_share_link

Resource: N/A