

US Flights Delays Tableau Project

Summary:

The project aims to provide visualizations as of tableau dashboard to unravel the different factors that might correlate with Flights delays among US airlines. The charts combine the cancellations and their relation with versatile airlines, the airports with highest records of delayed flights , the airlines with the highest flight cancellations as well as airport and arrival delays.

Visualization Design Choices:

Simplicity was a key for conveying the message through all the provided visualizations. In addition, the colors that were used was away from colorblind colors by using the tableau colorblind palette or choosing colors away from red or green. away from the red or green colors. The titles of the charts were removed for sake of simplicity and denoise.

Insight 1 (Delayed Departures Dashboard)

The dashboard indicates the correlation of delayed departures as compared to a specific origin of airport in a dashboard combining both the map and a bar chart along the whole weekdays. It can be inferred that ORD is the airport with the highest number of delayed departures along the whole weekdays, after which comes ATL and DFW airports respectively. The numbers changes upon selecting specific days of the week.

Filters: Days of the week.

[Airport with Delayed Departures | Tableau Public](#)

Insight 2 (States with highest distance traveled per airlines):

The chart used indicates the relationship between cities (grouped by states) with total distance traveled and the color belongs to specific airlines. It is shown that in terms of states, California is the highest states with overall distance travelled with airline AA is taking the lead amongst others. While In terms of cities, Chicago is the one on top amongst other cities with the same airline AA taking the lead as well.

The chart used here is bar Chart that uses colorblind friendly colors.

Filters: at least 350,000 of traveled Destinations used

[state with highest distance traveled per airlines | Tableau Public](#)

Insight 3 (Airlines Cancellations)

The bubble chart indicates the relationship between the airlines and the cancelled flights. From the chart, it is clear that the top three airlines with the highest cancellation flight numbers are

Southwest airlines, Atlantic Southeast Airlines and American Eagle with cancellation flights of 818, 800 and 723 respectively. The size of the bubble is indicative for the number of the cancellations.

Filter used here is airlines with over 100 cancelled flights.

[Airlines Cancellations | Tableau Public](#)