

Project 8 create a tableau story

Summary:

This project aims to show the seasonal variability in flight delays. Currently the project only visualizes an observable pattern between the change of seasons and the increase/decrease of delayed flights. we want to identify the data that may be correlated to overall airline delays. By comparing airline delays to arrival delays, departure delays, specific states, airports, and months in the year, as well as air time and travel distance. I focused in this project to identify any characteristics that appear to have a strong relationship with airline delay within this data set. I have created the visualizations in Tableau that answer the following questions:

1-How number of cancellation vary from each state to other? What is the highest state?

I found that flights in US. TX and IL have the highest number of cancelled flights, followed by CA and NY.

2-how does delay vary by airlines?

I found that There is a strong relationship between delays caused by Arrival & Departures however the data shows that Southwest Airline is responsible for the most delays in 2015.

There are additional findings in the final story.

Design:

The choices for this design were primarily made to keep things simple and easy to use. I will explain each sheet design individually.

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number of cancelled flights in each state

I choose a map to present stats in US and the count of cancelled flights in each one. I choose colors increase in degree with the larger count number.

- cancelled in each state

Here I want to visualize the count of cancelled flights across bar chart to easy the fast search.

- Airlines delay

In this sheet I draw a bar chart which show the airlines delay to determine which airline is the largest I ordered it to ease of the recognition.

- airline delay on each month

In this sheet I created a line plot between different kind of plots and used a color easy for eye to recognize.

- Airline cancellation Reasons

Here I created a bar plot with different colors a specific color for each cancellation reasons and ordered them by airlines.

- number of flights by airline

Here I created a bar plot to explore the number of flights for each airline and ordered them from largest to the smallest.

- Airlines delays sum

Here I used over plotting to explore the delay for each airline and know how much this delay from over all delay.

Feedback:

first feedback was hopeful and peaceful

I'll talk about the story I found the map chart is very useful and the bar chart beside it helped me in fast exploring states and the color which get darker with the more cancellation is good but if it was any color else than the blue it would be better.

The cancellation causes chart is very good and colors is good also.

The representation of delays and airlines was good also.

And finally the line plot was good but the order of measurement name was confusing a bit, the color was good.

Resources:

Data resources:

<https://www.kaggle.com/usdot/flight-delays/data>

Links:



[number of cancelled flights in each state](#)



[cancelled in each state](#)



[Airlines delay](#)



[airline delay on each month](#)



[Airline cancellation Reasons](#)



[number of flights by airline](#)



[Airlines delays sum](#)



[Dashboard 1](#)



[Dashboard 2](#)



[Dashboard 3](#)

initial story link:

<https://public.tableau.com/profile/ibrahim4092#!/vizhome/flightsstory/Story1>

Final story link:

<https://public.tableau.com/profile/ibrahim4092#!/vizhome/flightsstoryfinal/USflightsstory>