

Flight Delays and Cancellations

By: Ahmed Soliman

Dashboard 1:

1. Summary:

- As we can see from this graph Southwest Airlines Co has the highest delay rate in minutes (21.93 %) and cancelation rate by flights (18.45 %).

2. Design :

- This graph shows a dual Y-axis to see the percentage of cancellations and delays among the different airline companies as a percentage of the total is better to measure because some airlines companies may have more or fewer flights than others.
- We are dealing with categorical data so I choose to go for a Circle plot with a dual Y-axis.
- For colors, I go for blue and orange, this type of coloring makes it easier to quickly spot things around and it is better for color-blind eyes.

Dashboard 2:

1. Summary:

- As we can tell from the graph Taxes state has the highest delay time (174,212 minutes) and cancelation flights (668 flight).

2. Design :

- A map is best suited here as I had to plot state-wise flight cancellations which involve geographical data. I used a sequential blue color wherein the darker the blue color, the more the number of flight cancellations. This type of coloring makes it easier to quickly spot which states have high/low cancellations. I added a State filter so that readers can dig which states have the highest and lowest cancellations.
- Also, I added a bar chart for users that found it easy to get information from it, with one color only to reduce the distraction.

Dashboard 3:

1. Summary:

- The upper graph shows that Sunday has the highest cancelation rate by flights (21.64 %) while Thursday has the highest delay rate in minutes (19.64 %).
- The lower graph shows that February has the highest cancelation rate by flights (23.78 %) while June has the highest delay rate in minutes (18.80%).

2. Design :

- Since we are dealing with time-series data the best choice have to go with a line chart.
- For colors, I go for blue and orange, this type of coloring makes it easier to quickly spot things around and it is better for color-blind eyes.
- Also, I added a weekday/month filter so the user may dive deep into each day and month.