

## Summary

In this explanatory analysis, the author has tried to analyze the operation of flight Carrier throughout the United States, where every carrier area of operation is separately considered, with an aim of studying the various delay factors inherent the flight operations. The story discusses and brings out the most and the least dominant factors in operational delays of flights.

## Design

### Initial Decision

- *Line plots*: I chose to start with using line plots over a timeline to study variation in the delay patterns over the time period.
- *Maps*: This was one of the first layout I decided to see how Carriers operations is spread over different states.
- *Bar charts*: This was used to analyse the comparison among aggregating variables like among different delays, no. of rows etc
- *Filters*: Filters were the tools that I used from the start in order to analyze measurends for different categories eg: Finding area of operation of particular carrier, or number of Carriers in a particular area etc
- *Use of colors*: This was analysed to differentiate among categories or non-continuous variable eg US states, Flight Carriers etc
- *Use of size character size*: Thus was used to analyse variations among continuous variable or measurends. Eg. Amount of Security delay, carrier delay, no. of flights etc

### After feedback

- *Multi-layered Map*: After my feedback from mentor and online resources, I made a lot of uses of multi-layered geographical distribution of flight data.
- *Multiple Dashboard*: Most slides in my story uses dashboards, which has multiple interactive tools, through which viewer can interact graphs, maps using filters.
- *Multi-filters*: Filters are the most dominant tool used in my story.
- *More Colors and transparencies*: I made more and more use of colors, transparencies in text boxes and multi-layered map-view, that greatly enriched the viewing experience.

## Feedback

After feedback from different sources, I found multiple scope of improvements:

- **Resize View Layout:** The slides were big enough to be not fit into single screen, which was later corrected.
- **Use of multiple Dashboard:** The first version had only 2 dashboards, but later it was recommended and learnt the multiple dashboards must be used to have more enriched view.
- **Hover Action:** This was nice feedback from an online video, that greatly enriches the viewer experience.
- **Formatting:** This includes, introducing of colors, text box sizes, transparencies and fonts that enhances the view of the story.
- **Concluding Slide:** It was suggested to have a final concluding slides the discuss the outcome of the study in the story in a self visually explanatory form.

### Resources

- **Udacity Mentor:** I first sent my first version to my mentor for the feedback, he gave a lot of valuable suggestions.
- **Tableau Public Video resources:** That really helped me in various formatting aspect in the story.
- **YouTube videos** on tableau story writing
- **Other Online tableau forums of experts**