

Airport flight delay and Reason

First link:-

https://public.tableau.com/profile/rahul.kumar1488#!/vizhome/FlightprojectTableau/Airport_flight_delay

Final Link:-

<https://public.tableau.com/profile/rahul.kumar1488#!/vizhome/FlightprojectTableau/AirportFlightDelayandReason?publish=yes>

Summary:-

I have shown flight delay of airports in USA. I have calculated airport delay by taking average of departure delay and arrival delay.

We can see that airport code PUB has maximum delay. I have looked down the reason for delay. There are two main reason for flight delay in PUB.

- NAS DELAY
- Weather Delay

Nas delay airport authorities and government can control. It is heavy volume traffic problem. If government can provide more space to the airport problem can be solved. Weather delay is natural phenomena.

There are mainly five reason for flight delay. Mostly flight delay caused by Late aircraft delay, second is NAS delay, third is carrier delay, 4th is Weather delay and last is security Delay. We can see that weather delay is mostly in december and second in july month. Minimum weather delay is in october and second minimum

We can see that most of the cancellation caused by bad weather. Second most reason for cancellation is Carrier delay which is almost equal to weather and third NAS. There is no flight cancellation due to Security

Initial Design

I have shown each airport flight delay. I have taken bar chart to show the average delay in minutes. I have used bar chart because for showing various airport. Each bar will correspond to one airport. By seeing the length of each bar user can see which airport has most flight delay. Color is same for every airport. Because the length of bar that is y-axis represent the flight delay in minutes. There was no need to change color for each bar.

Design change

- In first Part I have shown the airport which has maximum delay.
- I have sorted airport which has maximum delay.
- After getting feedback from friend and reviewer. I have made few changes
 - a. I have shown reason for delay
 - b. I have converted dashboard to a story.
 - c. I have collected all the reason for flight delay
 - d. I have shown average five main reason for flight delay

- e. I have shown which month has most weather delay
- f. I have shown the various reason for flight cancellation.

For Month vs weather delay I have taken x-axis from 0 to 13 .Because last point was not visible clearly of 12 th month.But after getting feedback from reviewer I have changed x-axis till 12.

Feedback:

Hi, I think the charts are okay, but you are missing the "story" aspect. I did not see any story navigation, each link took me to only a single sheet. You should have several sheets or dashboards and use the story navigation alk you through the visualization and to caption each sheet/dashboard and lead the viewer to some key learning from the data. You should start by trying to determine the goal of the story you are trying to tell with the data, remember that for the project the goal is for the project to be more _explanatory_ rather than _exploratory_, this project should be more user oriented and so you should be trying to inform the user. So what do you want to inform them of? What are the biggest reasons for delays? Do planes arrive late, but depart on time? (that's a scary thought if they are rushing to make them ready again)

Resource:-

<http://stat-computing.org/dataexpo/2009/the-data.html>

<http://www.fly.faa.gov/flyfaa/usmap.jsp>