

AirLine delay causes

Link on Tableau:

https://public.tableau.com/profile/ahmed.ayman#!/vizhome/airline_delay_causes/AirlineDelaycauses?publish=yes

Summary

- In this tableau project I'm trying to get some insights and create some cool visitations to show off some information about the Airline delay causes data set provided by <https://www.bts.gov>.

Design

when I looked at the data set I got the following questions in my mind.

- What is exactly the most frequent cause of the delay?
- Probably the weather is impacting a lot in some months, the winter for example cause of the wind?
- What are the carriers and airports associated with the max number of delayed flights.

To answer the questions, I used tableau's worksheet and break down each chart to a dashboard to tackle the question and make it as much accurate as possible. Then I made two dashboards to answer the next two questions using a couple of charts. Finally I got them all in one story to make it easier to navigate through the charts and answers.

The Charts I've used where:

- Are charts to show off since there were a timeline.
- Group of bar charts to show off the frequency of each category of the delay causes.
- Treemaps to show off the Top 5 carriers associated with the biggest causes of delays.

After finishing the story I posted it on facebook and some other social accounts then I got the below feedback from my friend Crhis.

According to his feedback I mentioned the range of dates and the meaning of NAS in the introductory slide.

And according to my other friend feedback I edited the bar and the labels.

The first version before all of this is here

https://public.tableau.com/profile/ahmed.ayman#!/vizhome/airline_delay_causes_1/AirlineDelaycauses?publish=yes

there's no mention to the meaning of NAS and the range of dates.

Feedback

Got A feedback by a friend called Chris Harden.

What do you notice in the visualization?

Late aircraft the most frequent cause of delays. Security the least common.

What questions do you have about the data?

what was the range of dates for data collected/ data was collected between what dates?

- What relationships do you notice?

the top 5 delayed airports are also the top 5 biggest and busiest, though not necessarily in the order above.

- What do you think is the main takeaway from this visualization?

major airports have lots of delays which are most often due to late aircraft, carrier delays, and NAS delays.

- Is there something you don't understand in the graphic?

What does "NAS delay" mean?

Another feedback from my friend Afifi he said that the slide bar above was hard to read, also labels of the Top five airports chart was hard to grasp

Resources

- Udacity's content.
- some free videos on Tableau website.