

## Visualization of Flight Delays and Cancellations by Tableau

### Insight #1

#### Dashboard

[https://public.tableau.com/profile/cheung2196#!/vizhome/FlightDelayVer9\\_2/Dashboard6?publish=yes](https://public.tableau.com/profile/cheung2196#!/vizhome/FlightDelayVer9_2/Dashboard6?publish=yes)

- In this dashboard, we can identify which month is the most frequently arrival cancelled, and the average delay in specific airports in US.
- For example, for all the airport information in Year 2016, the most arrival cancelled is occurred on September.
- The graph below showed the reason of delay in different airlines.
- For example: The major reason for delay in Southwest Airlines are due to arrival delay.
- Using line plots and bar charts can provide good visual impression of trends and changes. It is also simple to construct and read.

### Insight 2

[https://public.tableau.com/profile/cheung2196#!/vizhome/project2\\_86/airport\\_cancel?publish=yes](https://public.tableau.com/profile/cheung2196#!/vizhome/project2_86/airport_cancel?publish=yes)

Top Ten airport has the most flight cancellation in America.

- Chicago O'Hare International Airport has the most flight cancellation (454 counts), followed by Dallas/Fort Worth International Airport (342 counts) and LaGuard Airport (222 counts)
- In this case, using Tree map to display hierarchical data. Like which airport has the most flight cancellation in US. There is a correlation between size where we are able to see their patterns.

### Insight 3

[https://public.tableau.com/profile/cheung2196#!/vizhome/project2\\_86/airline\\_cancel?publish=yes](https://public.tableau.com/profile/cheung2196#!/vizhome/project2_86/airline_cancel?publish=yes)

Which airlines the most frequently delay flights?

- United Airlines is the most frequently delay flights (63,845 counts), followed by America Airlines (60,386 counts) and Delta Airlines (50,578 counts)
- Using packed bubble view can show relational value without regards to axes. The bubbles are packed in as tightly as possible to make efficient use of space. In this case, we are looking at which airlines are more frequently delay flights. The arrangement of the bubble is out of our control, but we can manage how big the bubbles are by putting a measure of "Airlines Delay".

#### Resources

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

<https://www.youtube.com/watch?v=9xqHA732LMA&feature=youtu.be>

