



# Telling Stories with Data

Using flight.csv

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## Visualization #1:

To see the visualization kindly press [HERE](#).

### Question:

How departure delay affects arrival delay?

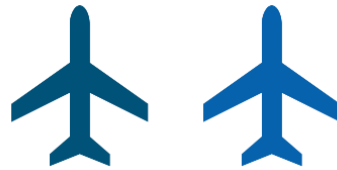
### Summary:

The visualization shows that most of the flights that had delay departure had a delay arrival. We can see that Guam international airport had the most average delays for both departure and arrival with 63 departure delay and 47 arrival delay.

### Design:

Using airport in columns and average of departure and arrival delay in rows creating scatter plot because it is the most suitable to compare quantitative data.





## Visualization #2

To see the visualization kindly press [HERE](#).

### Question:

How many flights were cancelled during the holidays?

### Summary:

The visualization shows that most of the flights were cancelled during Memorial Day with total of 30 cancelled flights followed by New year with 29 flights cancelled. It also shows that no flights were cancelled during thanksgiving.

### Design:

Using the sum of cancelled flights and holidays to create pie chart which is best to display the proportional of cancelled flights in each holiday. Note that "holidays" is a calculated field which indicates if the flight was during a holiday or not.



## Visualization #3:

To see the visualization kindly press [HERE](#).

### Question:

Is there a relation between the number of flights and delays?

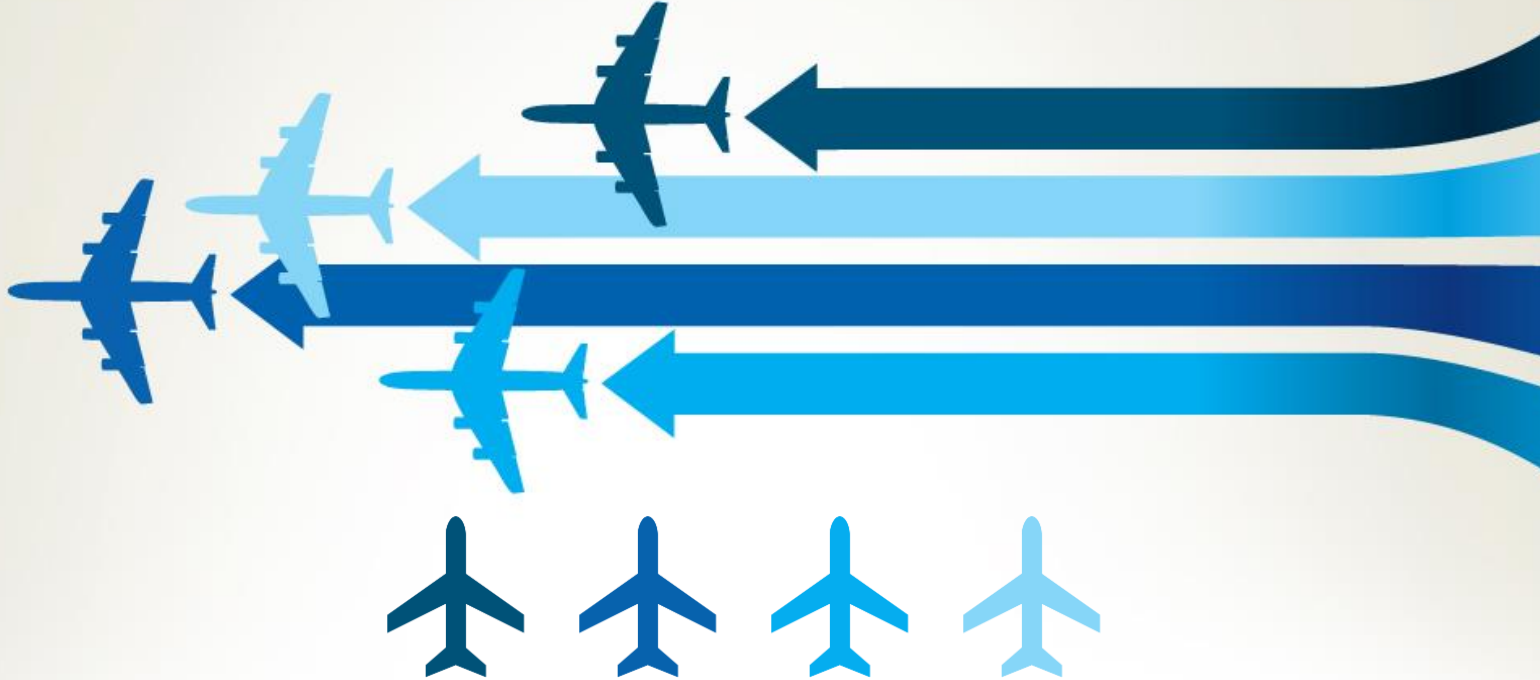
### Summary:

The visualization shows that there is a positive correlation between the number of flights and the number of delays.

### Design:

Scatter plot is the best way to visualize 2 quantitative values. Note that "delays" is a calculated field which represent the total of all delays given in the data set.





## Visualization #4

### The dashboard

To see the dashboard kindly press [HERE](#).

### Summary:

The dashboard consists of a map that shows Texas with the highest cancellation flights with 661 cancelled flights. It also shows that February had the most cancellation with 1058 cancellation for all states. We can see that southwest airline had the most cancelled flights and the most common reason for cancellation is the weather.

### Design:

States were represented by map which is the best way to show locations. The date Hierarchies can be used to display time frame starting from year into days by the line graph. The bar chart used for worst airline because it is the most recommended for comparing categorical and quantitative data.

## Resources

[Kaggle website](#)