# Project 3 by Jagrithi Singh.

## Insight 1 : Cancelled Flights

https://public.tableau.com/profile/jagrithi.singh#!/vizhome/Insight1CancelledFlights/FlightCancellationDashboard?publish=yes

We can observe the total number of cancelled flights on different days of the week(1-7) and in different months(1-12) because of different reasons.
It can be noticed that on the 2nd month (February) of the 2015 we have most number of cancelled flights (**Airline/ Carrier**-147, **Weather**-782, **National Air System**-129), while on the 9th month (October) we have the least number of cancelled flights (**Airline/ Carrier**-50, **Weather**-29, **National Air System**-29)

It can be noticed that most overall cancellations are because of **Weather** and least because of cancellation reason **National Air System** .

Only on the 5th day of the week the cancellation because of reason Airline/Carrier (168) surpasses cancellation because of reason Weather (152).

**Design:** I have chosen **line chart** for this query as it will be easier to compare between different months and also in each bar the distribution of reasons can be easily assessed. I will also be easier to compare cancellation reasons on different days of the week using line charts.
**Resources: N/A**

## Insight 2 : Overall Flight distribution between different Airlines

https://public.tableau.com/profile/jagrithi.singh#!/vizhome/Insight2OverallFlightdistributionbetweendifferentAirlines/FlightDistribution?publish=yes

Through this chart we can observe the overall distribution of flights between different airlines in the year 2015.

It can be observed that Southwest Airlines Co. Has the most shares of total flights as its total count of flight for the year is 59,437 and Virgin Airlines has the least share of 2,978 flights.

**Design:** I have used **tree maps** for this visualization as they give us a clear idea of the share of each airline out of the whole.
**Resources: N/A**

## Insight 3 : Average Weather Delay in different US states

https://public.tableau.com/profile/jagrithi.singh#!/vizhome/Insight3AverageWeatherDelayindifferentUSstates/WeatherDelayindifferentUSstates?publish=yes

Through this map we observe the average weather delay in different states of USA. The darker shades signify more delay while the lighter signify less delay. It can be observed that North Dakota has maximum average weather delay of 8.963 while West Virginia has zero average weather delay.

**Design:** I chose **maps** for this visualization as maps are the best way to differentiate between states and as this is a weather related query so the geographical location of the state add information, and we can also compare weather delay in adjacent states which wont be this easy in any other graph.
**Resources: N/A**