

Tableau Write-up
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February, 2019
Visualizing Flight Delay using Tableau

My Tableau workbook link:

a) First version- Version before Feedback:

<https://public.tableau.com/profile/zaid7583#!/vizhome/zaid/Story1?publish=yes>

b) Final version- Version after Feedback:

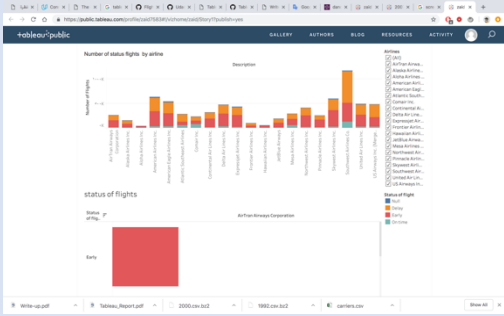
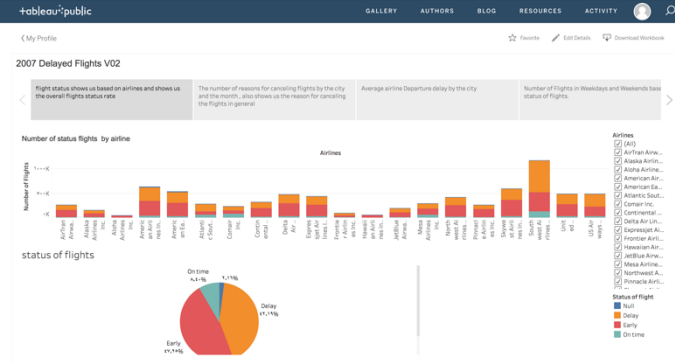
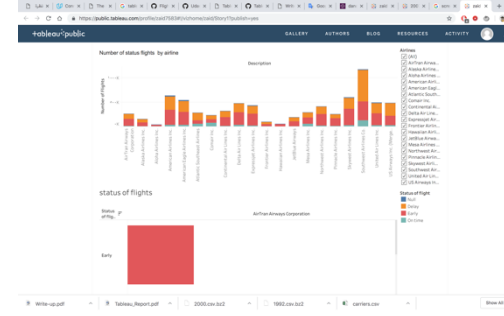
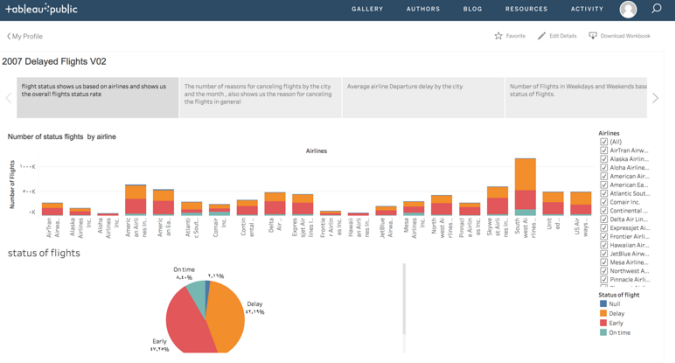
<https://public.tableau.com/profile/zaid7583#!/vizhome/2007DelayedFlightsV02/Story1>

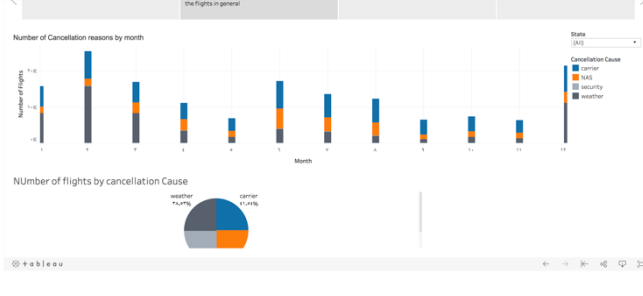
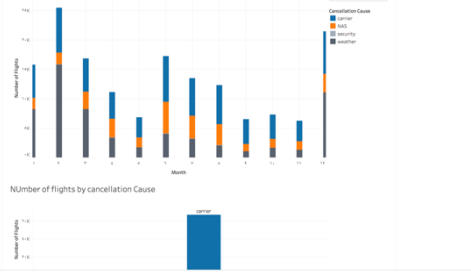
Summary:

I choosed Flight delays dataset from RITA website which contained information on flight delays and reasons. The link of download dataset is, <http://stat-computing.org/dataexpo/2009/the-data.html>

Dataset contains information on United State flight delays . There are 5 main reasons of delay: air carrier, NAS , weather, late arriving aircraft and security. This project shows how percentage of delay changes with time and location and how many delays each reason cause. The airports are grouped according to size and location to see how location and size of airport influence the delays of flights.

Design:

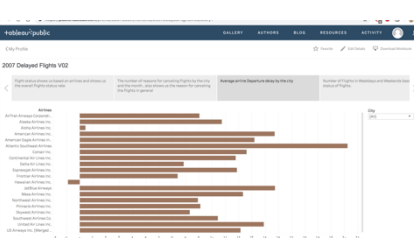
Before Feedback	After Feedback	Insight	Comments
	 <p>- Size of story has been changed as screen size.</p>		
	 <ul style="list-style-type: none"> - We change label from description to Airlines to make it more clarify for readers - We change the chart from Bar chart to Pie chart to make more clarify 	<p>We create this chart to see the number of delayed flights based on airlines, to analyze which airlines has delayed flights. I choose bar chart since we have multiple airlines and we a few filters so it will be easier for reader to analyze it</p>	<p>As we can see in chart</p> <p>Southwest Airlines Co.</p> <p>Has more delayed flights.</p>



- We change the chart from Bar chart to Pie chart to make more clarify

The ide of this chart to see the reason of cancellation, it could be cause the carrier or NAS or Security or whether and which month and stats has more cancellation. I choose bar chart since we have multiple months and we a few filters so it will be easier for reader to analyze it

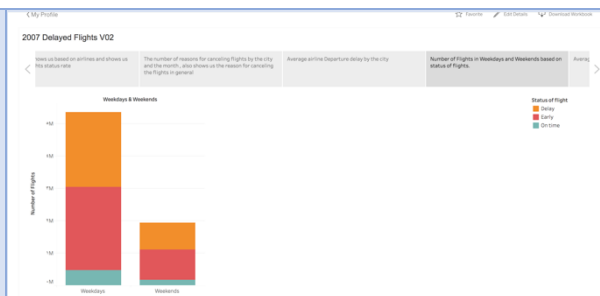
We can see Feb has more cancellation because the whether



- We changed the color from bright to darker color to make it easier for eye
- We change label from description to Airlines to make easier for reader

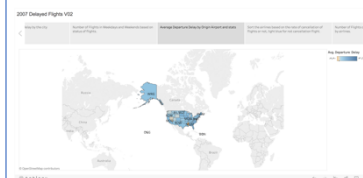
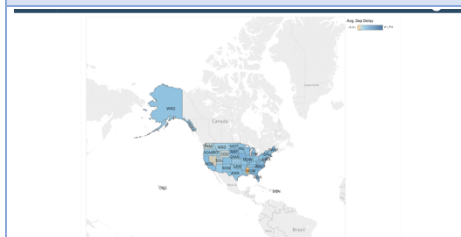
We create this chart to determine the flight delay rate to build a forecast image of airlines on flights which are committed in their schedule. I choose bar chart since we have multiple airlines so it will be easier for reader to analyze it

As we can see the Haaian Airlines is committed in their schedule



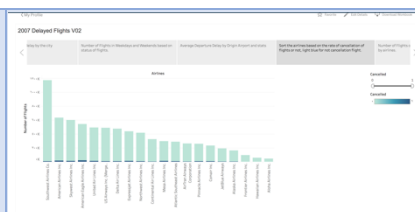
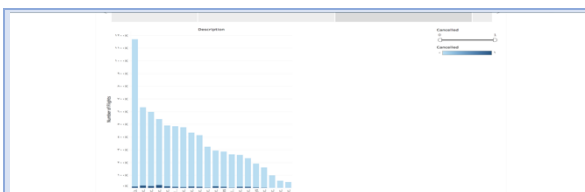
The idea of this chart to see the status of flight, is it impact on weekends or not because the vacation instead of weekdays. I choose bar chart as we need more details for sum number of flight and 2 values days instead of we use like pie chart it will be difficult to use.

As w can see in weekday more flights has been delay



We create this map to see which country has lowest average delayed. I choose map chart to make easier for reader since we have a lot of origin and we need average delay per origin it will be difficult for reader to act with it

As we can see on the map the origin EKO Has lowest average which give us is good picture for flight which departure from this origin

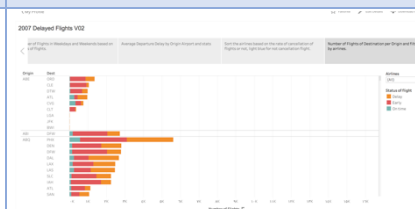


- We change the color to make easier for eye
- We change the label from description to Airlines to make more clarify for readers

The idea of this chart to see better airlines are not cancellation their flights to identify which airlines has more cancellation to avoid booking in this airline for necessary trip. I choose map chart since we have multiple airlines it will be difficult to show it with cancelled status.

A we can see the Southwest Airlines Co.

Is better airline for not cancellation the flight



The idea of this chart to see the status of flight by origin and destination based on airlines. I choose bar chart since it's easier for multiple rows to display and act with it.

For example origin ABE and dest to CVG the status of flight on time is better than other

Feedback

- 1- Size of story need to be automatic as screen size.
- 2- For dashboard 1 and 2 if you change to Pie chart it will be better and more clarify.
- 3- Negative values axis not coming in Average airline Departure delay chart.
- 4- Labels of some columns need to be change to make it more clarify in chart.
- 5- Some colors needs to be change from bright to dark.

Resources

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