



Flight Analysis Visualization Using Tableau

■ Link :

<https://public.tableau.com/app/profile/andrew.mounir/viz/MostStatesCancellations/MostCancelled>

- Insight 1:

Most Flight Cancellations by States

- Summary :

We noticed from the map that the largest country with canceled flight is Texas, with (668), followed by Indiana (563).

- Design:

I used a purple-colored map to show the country's most canceling flights, as the color is clear and clearly shows the ranking of each country in terms of cancellation

■ **Link :**

<https://public.tableau.com/app/profile/andrew.mounir/viz/MostAirlinesCancellations/MostAirlineCancellation>

- Insight 2:

Most Airlines Cancellation

- Summary:

It is clear from the visual analysis that we have explored the airlines that has the most cancellations, which is the Southwest airline company with record (818) followed by Atlantic Southwest Airline company with Record (800) and third American Eagle Airline Company with (723).

- Design:

I used packed Bubbles Multiple clear colors far from the colors that distract the eyes and may be a kind of color blindness with the use of size to show the airlines that have the most numbers for cancellation.

■ **Link:**

<https://public.tableau.com/app/profile/andrew.mounir/viz/MostCancellationCauses/mostcancellationcauses>

- Insight 3:

Flight Cancellations Causes

- Summary:

I explored as the most reason for cancellation was the weather which might be a result of seasonality as many flight have been canceled due to bad weather

- Design:

I used Bar Chart to Explain the Most Reasons for Flight Cancellation with Clear Colors Guidelines that simply Clear Vision as following:

- 1- Orange color for Airline/carrier
- 2- Light Gray National Air System
- 3- Gray for Weather
- 4- Blue for Security

- **link:**

https://public.tableau.com/app/profile/andrew.mounir/viz/WorstAirlinesDelay_16469305295320/WorstAirlinesDelay

- Insight 4:

Worst Airline Delay

-Summary:

I explored from Tree Map the Worst Airline Delay as Southwest Airlines Company with Record (316,320) Followed by American Airlines with record (135741) and SkyWest Airlines with Record (135,092) followed by United Airlines with Record (130565) and Finally Atlantic Southeast Airline with (126155).

- Design:

Here Tree Map It was very convenient to illustrate the latest airlines and I used the color purple for Clear Vision.

■ Link :

https://public.tableau.com/app/profile/andrew.mounir/viz/AirlineDelayCauses_16469307882680/delaycauses

- Insight 5:

Flight Delay Causes

- Summary:

I founded the main most Reasons for Delay Are Departure Delay then Arrival Delay and Late Aircraft Delay So These Reasons are a major factor why flights get delayed. If a scheduled flight pushes back from the gate late, that flight could impact the departure of other flights, such as the next flight scheduled to arrive at the gate occupied by the late flight departure.

-Design:

I used Bar Chart to simply explain Delay Reasons with clear color so far from Blind colors and set a filter to see every Airline causes.

■ Link :

<https://public.tableau.com/app/profile/andrew.mounir/viz/CansellatiOnAnalysisByMonthDashboard/Dashboard1?publish=yes>

-Insight 6:

Cancellation Analysis by Month Dashboard

-Summary:

I explain in dashboard Most Cancellation Airline, Most Causes cancellation by airline in month and design map to illustrate all cancellation for every states.

-Design:

I used A mixture of visual shapes, such as the bar chart, the map, and the line Chart in comfortable colors to see away from blind colors and set a filter by month as easy to see cancellation by airline for every Month, so that people can understand the analysis in an easy and clear way.

■ Link:

<https://public.tableau.com/app/profile/andrew.mounir/viz/CansellationAnalysisByMonthDashboard/Dashboard2?publish=yes>

- Insight 7:

Delay Analysis by Airlines Dashboard

- Summary:

I explain in dashboard Most Delay Airline, Most Causes Delay by airline and worst month for Delay to illustrate Delay for Airlines in clear Vision

- Design:

I used A mixture of visual shapes, such as the bar chart, line chart, and packed Bubbles Chart in comfortable colors to see away from blind

colors and set a filter by Airlines as easy to see Delay by airline so that people can understand the analysis in an easy and clear way