US Flight Delay Explanatory Analysis

- **Link to project initial version:**
  https://public.tableau.com/profile/anas.haneya#!/vizhome/Flight_delay_US/US_Flight
- **Link to project final version:**
  https://public.tableau.com/profile/anas.haneya#!/vizhome/Flight_delay_US_2/US_Flight
- **Summary:** I have started my story by exploring the Cancelation reasons visualized by Bar chart, and to explore the trend of cancellation over this year Months and weeks using line chart.
  Then I have moved to Departure delay by state and airport visualized on a map.
  Then I broke the Air time into bins and measured arrival and departure delays, to explain how short airtime causes either departure and arrival delays.
  Then I moved to Carrier & NAS Delay broken down to unique carrier, and average time difference between scheduled and actual departure and arrival times.
  Lastly, I explored the sums of delay reasons broken by States to identify the gaps, in NAS and carrier when processes can improve these delays.
- **Design:** I have used Bar charts, since its easily shows the difference between the compared values.
   I have also used the line charts as its really useful when adding a third element to the chart like coloring for cancelation reason.
  I have used map since we have states and airports, this type of chart can beautifully show a value difference scattered on the map.
  Also Used dual axis bar chart to compare 2 measures side by side.
- **Feedback:** NA
- **Resources:**
   https://www.airportcodes.us/us-airports.htm this site used to generate a sheet I have joined with the original dataset to provide me the state of each airport code.