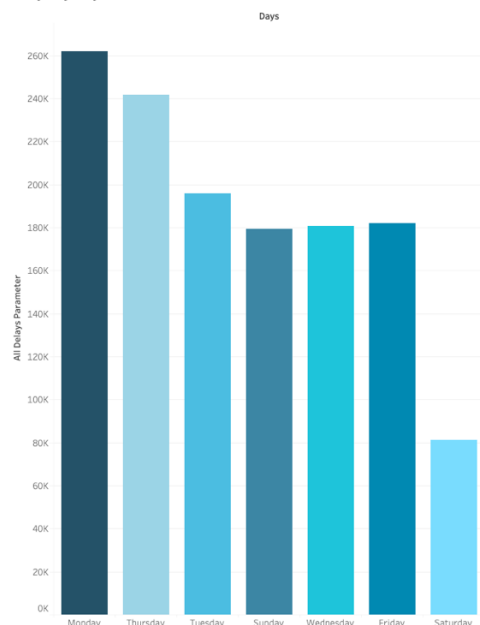


Insight # 1 Delays by Day

- **Link:** Cancellations & Delays Story <---
https://public.tableau.com/views/FlightCancellationsDelays_16751914790720/Story1?:language=en-US&:display_count=n&:origin=viz_share_link
- **Summary:** This chart provides a breakdown of the types of delays experienced by flights on each day of the week. It can be seen that Monday experiences the highest number of delays with a total of 261,935, while Saturday experiences the least number of delays with a total of 81,214. The average of all delays is calculated based on Air System Delay, Airline Delay, Arrival Delay, Departure Delay, Late Aircraft Delay, and Security Delay. The chart allows for filtering by airline, making it possible to compare the delays experienced by different airlines on each day. This insight provides valuable information to airlines as they can use the data to identify the days of the week that they experience the most delays and take necessary steps to reduce the number of delays on those days. Additionally, it provides insights into the types of delays experienced by flights and which airlines are affected the most, allowing airlines to take the necessary steps to minimize these delays in the future.
- **Design:** A bar chart was used to present this insight. The bar chart provides a clear visual representation of the delays experienced by flights on each day of the week. The days of the week were used in the columns, while the measure values were used in the rows. The measure names were filtered by color and airline name, making it possible to compare the delays experienced by different airlines on each day. The filter option allows for easy comparison between different airlines and provides a clear understanding of which airlines are experiencing the most delays on each day.
- **Resources**
https://www.clearlyandsimply.com/clearly_and_simply/2014/06/string-calculations-in-tableau.html

Delays by Day

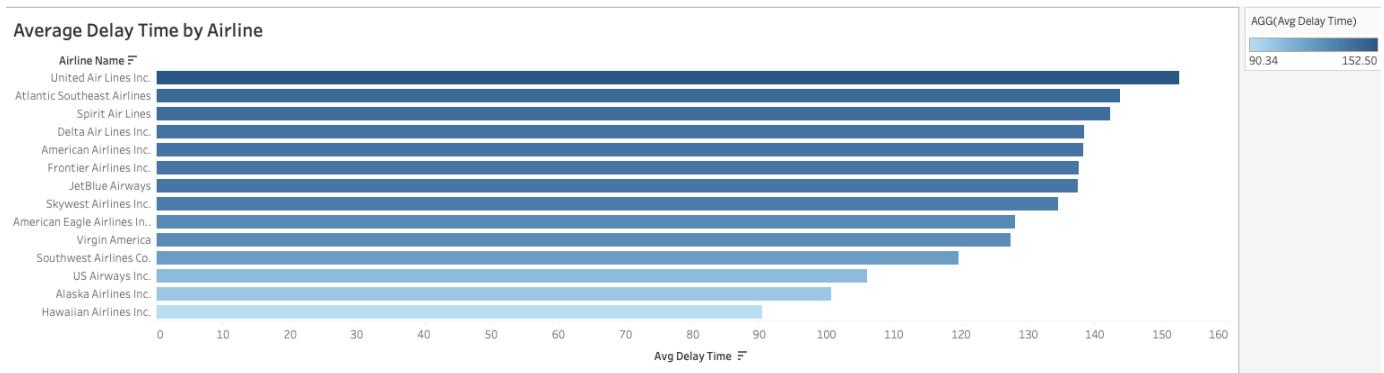


Airline Name

(All)

Insight # 2 Average Delay Time by Airline

- **Link:** Delays Story <---
https://public.tableau.com/shared/FQ4W388RT?:display_count=n&:origin=viz_share_link
- **Summary:** The Average Delay Time by Airline is a bar chart that provides a visual representation of the average delay time by airlines on a daily basis. The chart breaks down the average delay time by considering different types of delays such as Air system delay, Airline delay, Arrival delay, Departure delay, Late Aircraft delay, and Security delay. The chart also shows the highest average delay time was recorded on Monday with a total of 261,935, while Saturday had the lowest average delay time of 81,214.
- **Design:** The bar chart was used to present this insight as it effectively breaks down the data and allows for easy comparison of average delay time between different airlines. The days are represented in the columns, with the average delay time as the measure values in the rows. The chart also has the option to filter between different airlines using the airline name, which is shown in different colors. This visualization design provides a clear picture of the average delay time for each airline on a daily basis and helps in understanding the trend over time.
- **Resources**
https://www.clearlyandsimply.com/clearly_and_simply/2014/06/string-calculations-in-tableau.html



Insight # 3 Elapsed Time by Airlines

- Link: Airlines & Trips Story <---
https://public.tableau.com/shared/T8Z3HPY3R?:display_count=n&:origin=viz_share_link
- **Summary:** This insight provides a visual representation of the elapsed time of flights grouped by airlines over time. The chart shows that Southwest Airlines have the highest elapsed time, with a total of 7,070,130. On the other hand, Hawaiian Airlines have the lowest elapsed time, with a total of 369,516. This insight provides a comprehensive view of the elapsed time by airlines, which can be useful in analyzing the operational efficiency of different airlines. This insight provides valuable information to airlines and other stakeholders in the aviation industry. Airlines can use this information to evaluate their operational efficiency and make necessary changes to improve their performance. Additionally, stakeholders can use this insight to make informed decisions about choosing airlines based on their elapsed time.
- **Design:** The chart used for this insight is an area chart, which is an effective way to show the change in the elapsed time of flights over time. The chart is designed with filters that allow the user to view the elapsed time by airlines, months, and airline name by color. This gives the user the flexibility to analyze the data based on their specific requirements. The area chart is effective in showing the distribution of elapsed time across different airlines. The use of color to differentiate between different airlines makes it easy to distinguish between them and see how they compare to each other. Additionally, the use of filters makes it possible to view the elapsed time by airlines and months, providing a more comprehensive view of the data.
- Resources
https://www.clearlyandsimply.com/clearly_and_simply/2014/06/string-calculations-in-tableau.html

