

## - Flight Delays and Cancellations Project:

- The project is analyzing the Top 5 Highest population states: CA, FL, IN, NY and TX

### 1. Link-1<sup>st</sup> Visualization:

[https://public.tableau.com/views/P4-FlightDelaysandCancellations/Stateswithmostcancellation?:language=en-GB&:display\\_count=y&:origin=viz\\_share\\_link](https://public.tableau.com/views/P4-FlightDelaysandCancellations/Stateswithmostcancellation?:language=en-GB&:display_count=y&:origin=viz_share_link)

- **Summary:** The Map view is filtered based on State which has the greatest number of cancelled flights, each state identified using gradient color to show highest to lowest number of cancelled flights.
- **Design:** Map view is selected to easily understand distribution of data across city, state, and country, it is easier for comparison between states results.
- **Resources:**  
<https://www.idashboards.com/blog/2017/08/02/5-provocative-map-data-visualizations/>

### 2. Link-2<sup>nd</sup> Visualization:

[https://public.tableau.com/views/P4-FlightDelaysandCancellations/Flightscancellationreasons?:language=en-GB&:display\\_count=y&:origin=viz\\_share\\_link](https://public.tableau.com/views/P4-FlightDelaysandCancellations/Flightscancellationreasons?:language=en-GB&:display_count=y&:origin=viz_share_link)

- **Summary:** Pie chart clearly shows that most of the cancellation reasons is from Weather which contains 1243 cancelled flight with proportion of 54,83%, the data is filtered based on Top 5 population states CA, FL, IL, NY and TX.
- **Design:** The Pie chart represents the 3 slices of cancellations reasons %; each slice is identified using a different color with take into consideration colorblindness, letters A,B,C replaced with the full reason to make visualizations more readable.
- **Resources:** N/A

### 3. Dashboard:

[https://public.tableau.com/shared/PK2WFDFYP?:display\\_count=y&:origin=viz\\_share\\_link](https://public.tableau.com/shared/PK2WFDFYP?:display_count=y&:origin=viz_share_link)

- **Summary:** Map and Pie chart are combined to show the relationships between data.

### 4. Link-3<sup>rd</sup> Visualization:

[https://public.tableau.com/views/P4-FlightDelaysandCancellations/MostcancelledflightsbyAirlineCompanies?:language=en-GB&:display\\_count=y&publish=yes&:origin=viz\\_share\\_link](https://public.tableau.com/views/P4-FlightDelaysandCancellations/MostcancelledflightsbyAirlineCompanies?:language=en-GB&:display_count=y&publish=yes&:origin=viz_share_link)

- **Summary:** The Bar chart illustrates the number of cancelled flights by each airline company which sorted from highest to lowest, the graph clearly shows that American eagle airlines company has the highest number of cancelled flights with total of 461 across the 5 states.  
As shown, there is small difference between American eagle airlines company and Southwest airline company with 35 cancelled flight.
- **Design:** Bar chart selected to represent numeric values as bars and spotting highs and lows in the data.
- **Resources:** N/A