

## Introduction:

The following comprises four worksheets(insight 1-4) which depicts delays experienced by travelers in the US for the year 2015 through their destination airports.

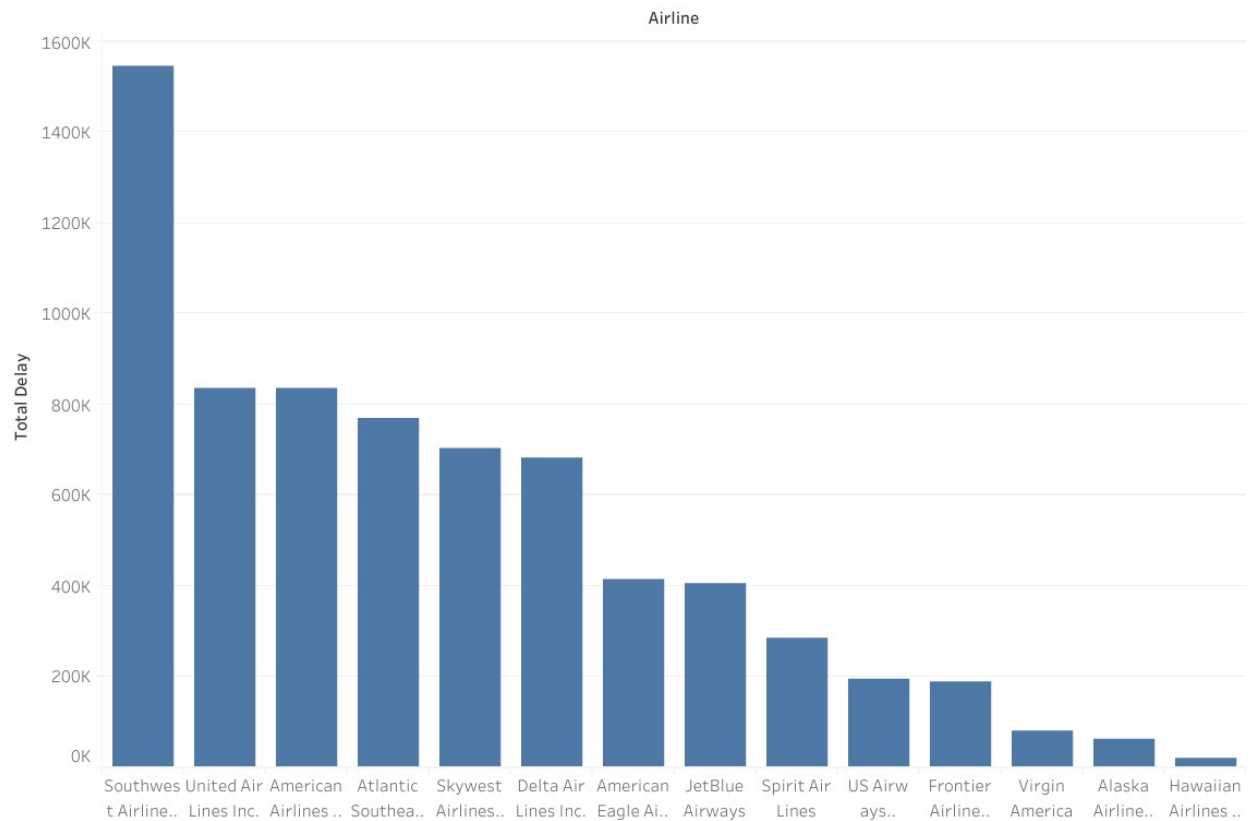
## Insight 1: Delays per Airline

By hovering over the dashboard, I clicked on the bar chart labelled Delays per Airline. This showed the total number of delays experienced by travelers per airline for the year 2015. Total delays is a calculated field which comprises airline, arrival, departure, late aircraft, air system, security and weather delays.

A bar chart was used to display the analysis since it was based on a set of data. In this chart I used blue to avoid distractions by using bright colors.

Southwest Airlines Co. had the largest total delays(1,546,569) and Hawaiian Airlines Inc. had the least number of delays(21,815).

Delays per Airline



## Insight 2: Causes of delays per Airline

By hovering over the dashboard, I clicked on the table labelled Causes of delays per Airline. This showed the different causes of delays experienced by travelers per airline for the year 2015.

A table was used to display a comparative analysis of the different causes of delays.

Southwest Airlines Co. had the largest departure delays(648,419) and Hawaiian Airlines Inc. had the least number of departure delays(589).

### Causes of delays per Airline

Airline	Air System		Arrival Delay	Departure Delay	Late Aircraft Delay	Security Delay	Weather Delay	Total Delay
	Delay	Airline Delay						
Southwest Airlines Co.	81,727	182,670	289,992	648,419	316,320	483	26,958	1,546,569
United Air Lines Inc.	75,021	109,289	145,517	360,603	130,565	0	16,095	837,090
American Airlines Inc.	83,324	131,674	138,580	315,771	135,741	1,130	29,217	835,437
Atlantic Southeast Airlines	85,050	115,333	187,908	246,659	126,155	0	9,756	770,861
Skywest Airlines Inc.	63,847	98,814	166,148	222,788	135,092	622	16,201	703,512
Delta Air Lines Inc.	87,162	125,178	21,654	311,657	105,785	455	32,138	684,029
American Eagle Airlines In..	46,060	45,178	92,212	138,110	74,620	351	18,070	414,601
JetBlue Airways	46,173	50,734	84,868	147,149	71,836	496	5,005	406,261
Spirit Air Lines	41,486	24,218	84,252	93,261	39,187	297	2,483	285,184
US Airways Inc.	33,202	31,278	36,688	61,443	27,945	271	3,254	194,081
Frontier Airlines Inc.	29,239	16,873	55,104	57,380	29,521	0	954	189,071
Virgin America	10,792	7,583	17,107	29,877	14,109	104	1,964	81,536
Alaska Airlines Inc.	14,649	16,608	-4,007	15,753	19,059	380	1,307	63,749
Hawaiian Airlines Inc.	205	8,744	6,494	589	5,258	113	412	21,815

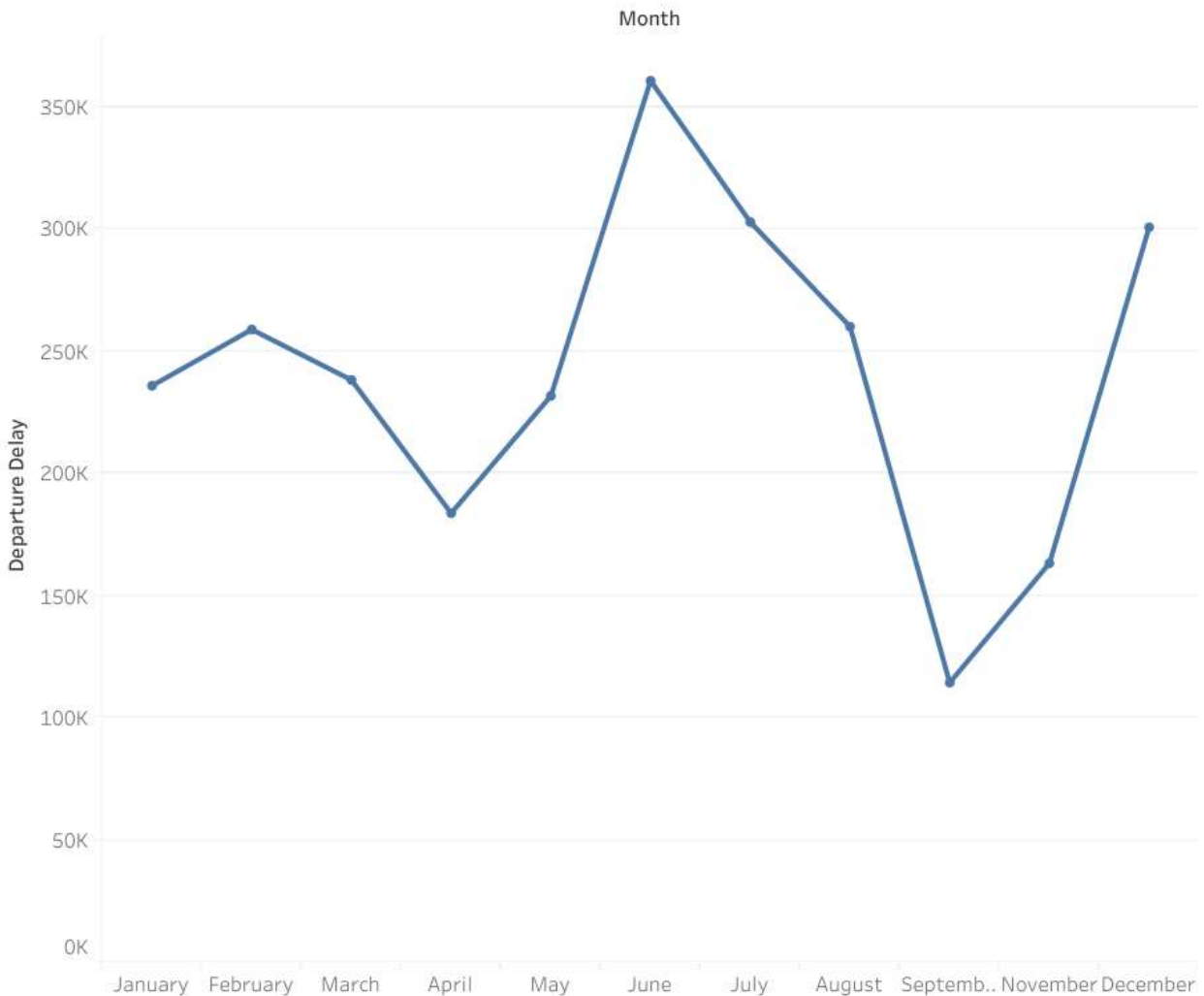
### Insight 3: Departure delay per month

By hovering over the dashboard, I clicked on the line plot labelled Departure Delay per Airline. This showed the number of departure delays experienced by travelers per airline for the year 2015. The data can be viewed on a month-by-month basis.

A line plot was used to display data over time. In this graph I also used blue to avoid distractions by using bright colors.

The highest number of departure delays was in June (360,568) and the lowest in September (114,342).

Departure delay per month



## Insight 4: Total delay per State

By hovering over the dashboard, I clicked on the map labelled Total delay per State. This showed the total number of delays and departure delays per State for the year 2015.

A map was used to understand the trends and patterns in the data source. In this map I also used blue to avoid distractions by using bright colors. The darker color signifies higher departure delays and the lighter colors are lower.

California had the highest number of total delays (886,502) and Texas the second highest (859,998).

Total delay per State

