Build Data Dashboard

Results of the following **questions**:

1. **Which airlines have the worst delays and what are the reasons?**

2. **Which month has the most cancellations per airline and what are the reason for it?**

3. **Which flight number has the most cancellations and what is the reason?**

Link to Dashboard (**Link to WS 1** + **Link to WS 2**)

Summary:
This Dashboard gives us a perfect overview about different task you can work, if you would like to improve some topics. Analyzing the data gives us the chance to answer some question and gives us the opportunity to think different topics through. Our dashboard gives us some insights about:
-   Which airline has the most delays in total = WN (Southwest Airlines)
-   What is the reason for those delays and which reason is the most common one, in this case the Departure.
Furthermore we can analyze next to the delay reason, all cancellations:
-   Which airlines and flights has the most cancellations reasons

Design:
From a design perspective, I've tried to use only the blind color pattern, so that everyone has a chance to see the graphs properly. Furthermore I've used the bubble graph as a filter for all other visualizations. So using this filter you gets the insides per Airline immediately for every graph you see in this dashboard. Also I've tried to use always the same colours for all graphs, so the reader get used to the design.

Resouces:
Data Sources from Udacity: Airlines.csv, Airport.csv, Flights.csv

[**Link to Worksheet 3**](#)

Summary:
This area chart gives us a good overview which month has the most cancellations and what is the reason for it. This insight is divided for each airline. At a glance we're getting insights about:

- That February is the worst month of cancellations because of the weather

Design:
From a design perspective, I've used the area chart to see the peek of the cancellations and the reason at a first glance, here I've used the blind color pattern, so that everybody can see this graphic properly.

Resouces:
Data Sources from Udacity
Airlines.csv
Airport.csv
Flights.csv

[**Link to Worksheet 4**](#)

Summary:
This graph gives us more details about the cancellation we've learned from Insight 2. In this case we're analyzing the cancellations of those Airlines a bit deeper and checked every flight number within 12 month.

So for our question which flight no. has the most cancellations and what is the reason for it, is flight no. 3044 because of the weather.

Design:
I've used a horizontal bar chart to get a quick indicator which flight number has the most cancellations and the reason for it. Also I've used three different colours for the cancellation reason from a blind color pattern to reduce the brightness of colour but also to see immediately the different reasons.

Resouces:
Data Sources from Udacity:
Airlines.csv
Airport.csv
Flights.csv