

Build Data Dashboard

Results of the following **questions**:

1. **Which airlines have the worst delays and what are the reasons?**
2. **Which flight number has the most cancellations and what is the reason?**

*Source Picture:

<https://www.nysenate.gov/newsroom/press-releases/joseph-griffo/senate-passes-griffos-bill-strengthen-penalties-aiming-laser>



Project 4 Storyboard

[Link to Storybook](#)

Summary:

In this Storybook I'd like to give in a nutshell the whole Story of analyzing the Airline data. Starting with the overview of all Airlines and there delays, so you get a feeling of that before moving into details like delay types, cancellation reason per airline and flight number. The end of the story is the dashboard so have a whole overview of details in a glance.

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 and used also always the same colors tones, to have a easy read.

Resouces:

Data Sources from Udacity:

Airlines.csv

Airport.csv

Flights.csv

Project 4 Dashboard

[Link to Dashboard](#)

Summary:

I've analyzed different views of the Airline data to see different perspectives and to answer the question of delays and the reason for that and those are our answers:

The Airline Southwest Airline Co. has the worst delays.

The departure causes the most delays.

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.

Resouces:

Data Sources from Udacity:

Airlines.csv

Airport.csv

Flights.csv

Project 4 Insight 1

[Link to Worksheet 1](#)

Summary:

I've analyzed different views of the Airline data to see different perspectives and to answer the question of the reason of all delays per Airline: The departure causes the most delays.

Design:

From a design perspective, I've used a vertical bar chart and used only two colors for delayed flights and total and the reason for it. The reader gets a better understanding of the delayed compare to all flight per Airline. The vertical bar chart helps us to see in a small amount of time which Airline have the highest or lowest numbers.

Resources:

Data Sources from Udacity:

Airlines.csv

Airport.csv

Flights.csv

Project 4 Insight 2

[Link to Worksheet 2](#)

Summary:

This bubble chart gives us a perfect overview of all delays per Airline. In this overview you see immediately which Airline has the most delays. In this case the Southwest Airline.

Design:

From a design perspective, I've used a bubble chart and used different bubble sizes to see at a first glance, which Airlines has the most delays. Furthermore I've used different colors so see the different airlines I analyzed.

Resources:

Data Sources from Udacity:

Airlines.csv

Airport.csv

Flights.csv

[Link to Worksheet 3](#)

Summary:

This area chart gives us a good overview of the cancelation reason for each airline. The different colors gives the reader a quick overview about the reasons. Most of the time the weather causes the cancellations.

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

Project 4 Insight 4

[Link to Worksheet 4](#)

Summary:

This graph gives us an overview of all flight numbers of all datas. For each flight number we get the cancellation reason within 12 months. Furthermore, we divided each flight into their cancellation reason, so we can see at a first glance which flight has what kind of cancellation reason.

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.

Resources:

Data Sources from Udacity:

Airlines.csv

Airport.csv

Flights.csv