

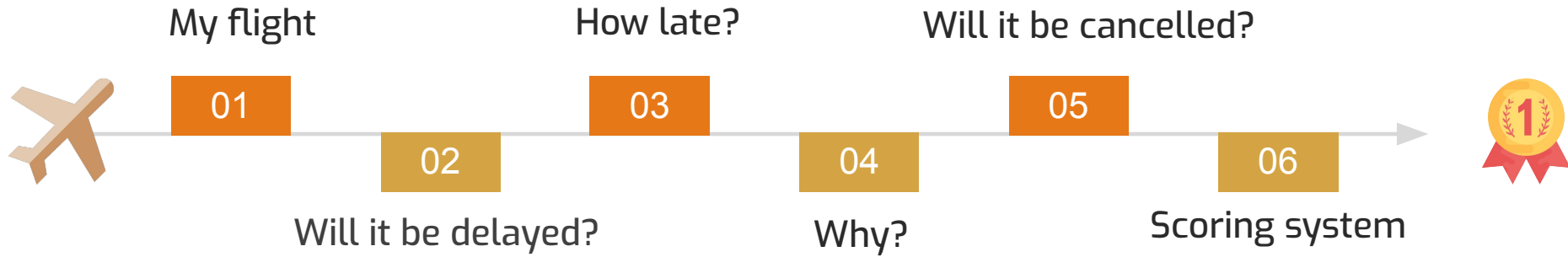


# Analysis of Airline Delay and Cancellation

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# Content





01

# Data Overview

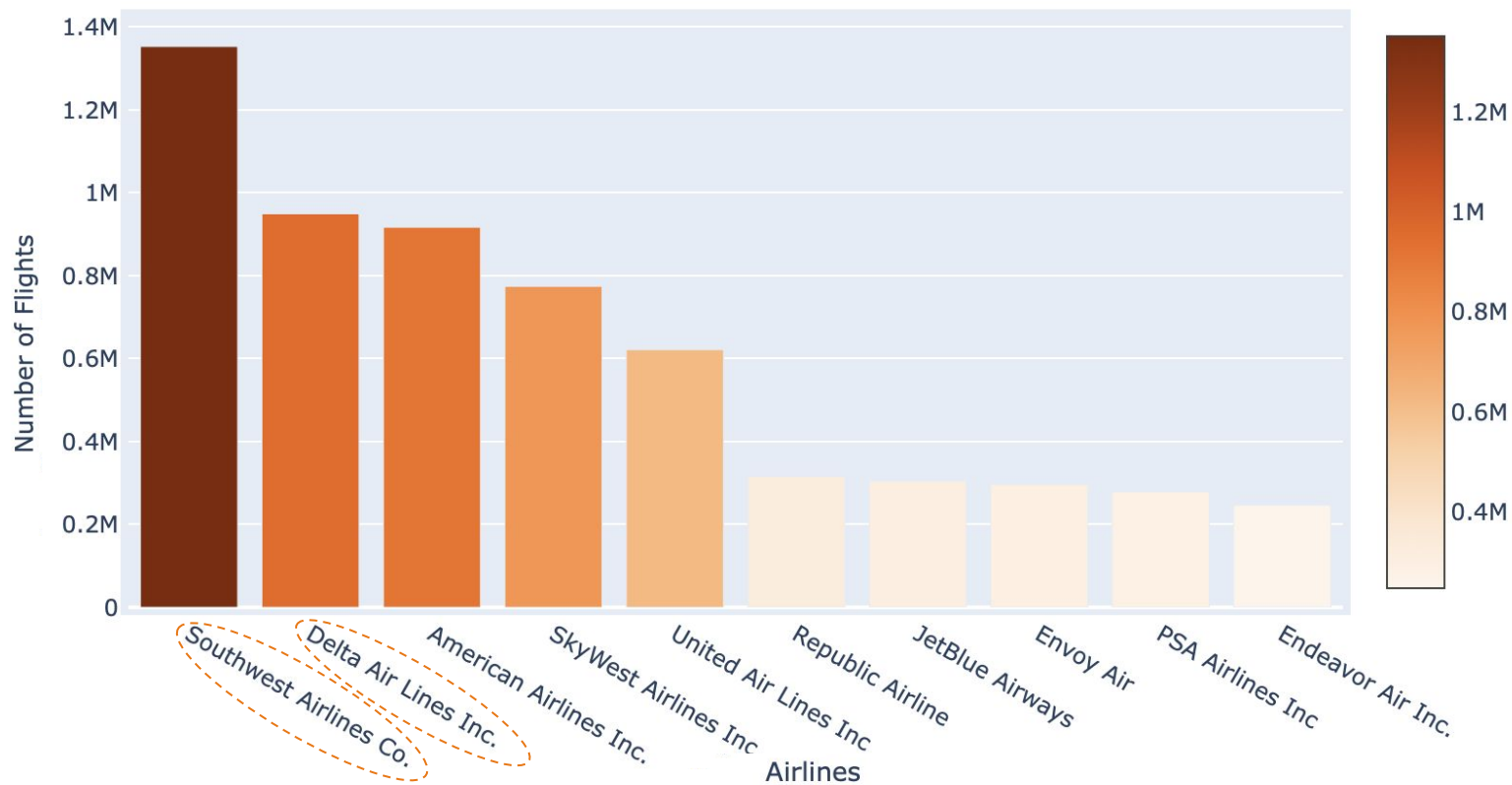
# Dataset

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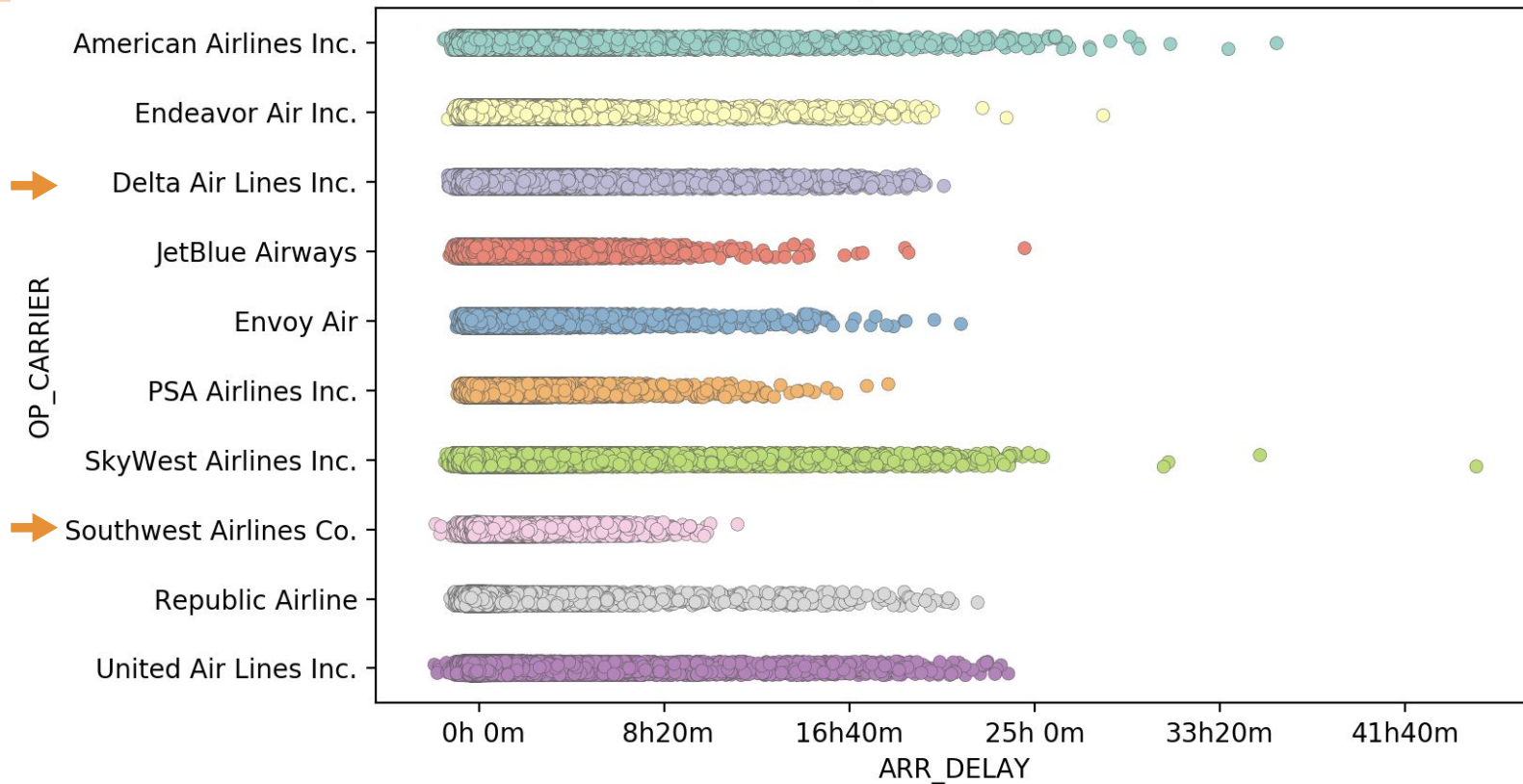
- ❖ All US flights in 2018
- ❖ 10 out of 18 airlines
- ❖ Delay duration
- ❖ Delay reasons
- ❖ Cancellations



# Flights in 2018, ranked



# Flights in 2018



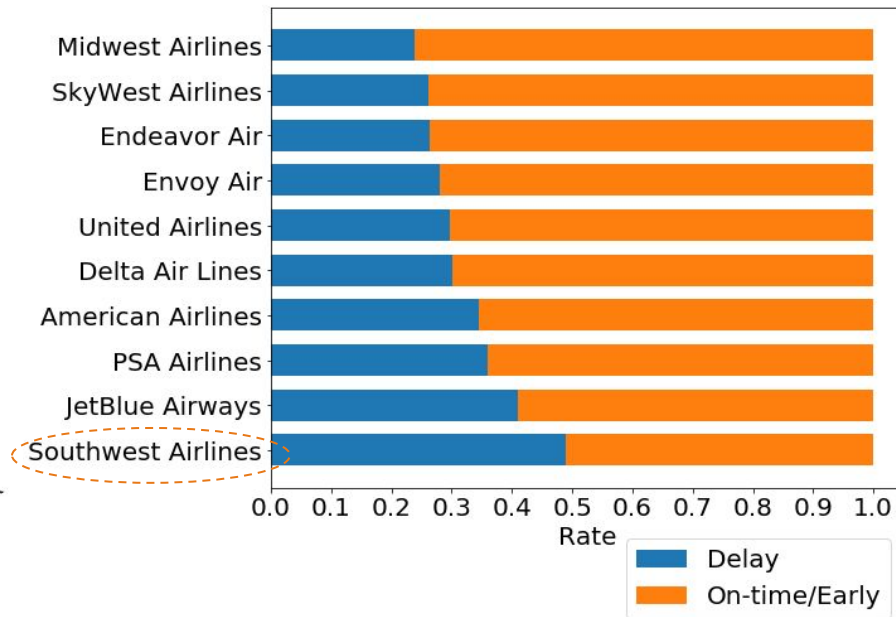
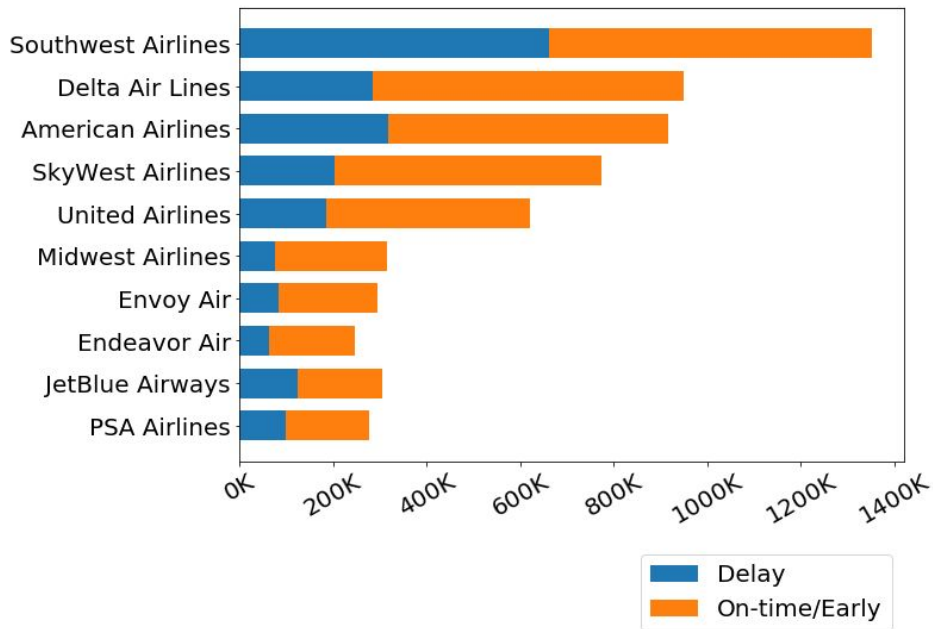
# 02

## Will my flight be delayed?

Analysis for delay frequency

- Airline
- Month

## 2.1 Will my flight be delayed?





## 2.2 Which months have the most delays?



# 03

## How late will I be?

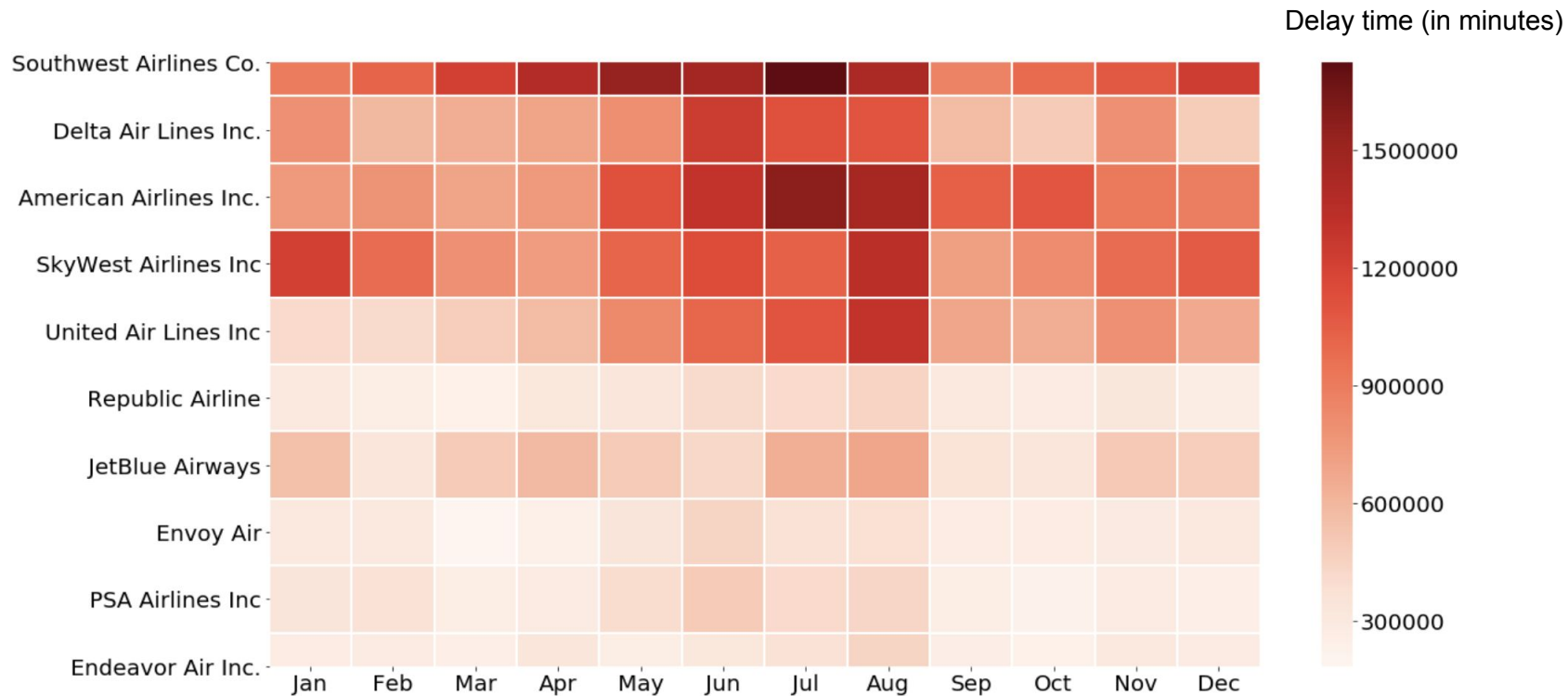
Analysis for delay duration

- airlines?
- day/month?

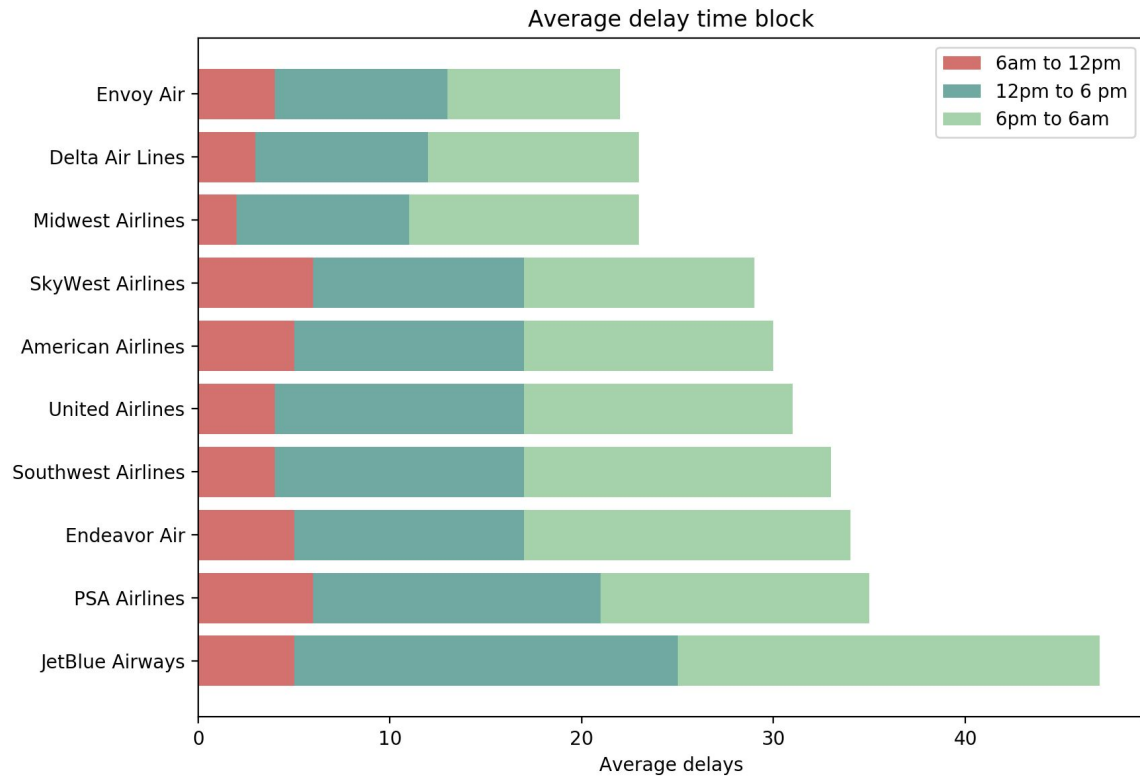
## 3.1 How long do I have to wait?



## 3.2 When is the best time for me to travel?



## 3.3 What time of the day is the best?



04

# Why is my flight late?

Reasons why and distribution

# What's happening?

Late Carrier & Aircraft

National Air System (NAS)

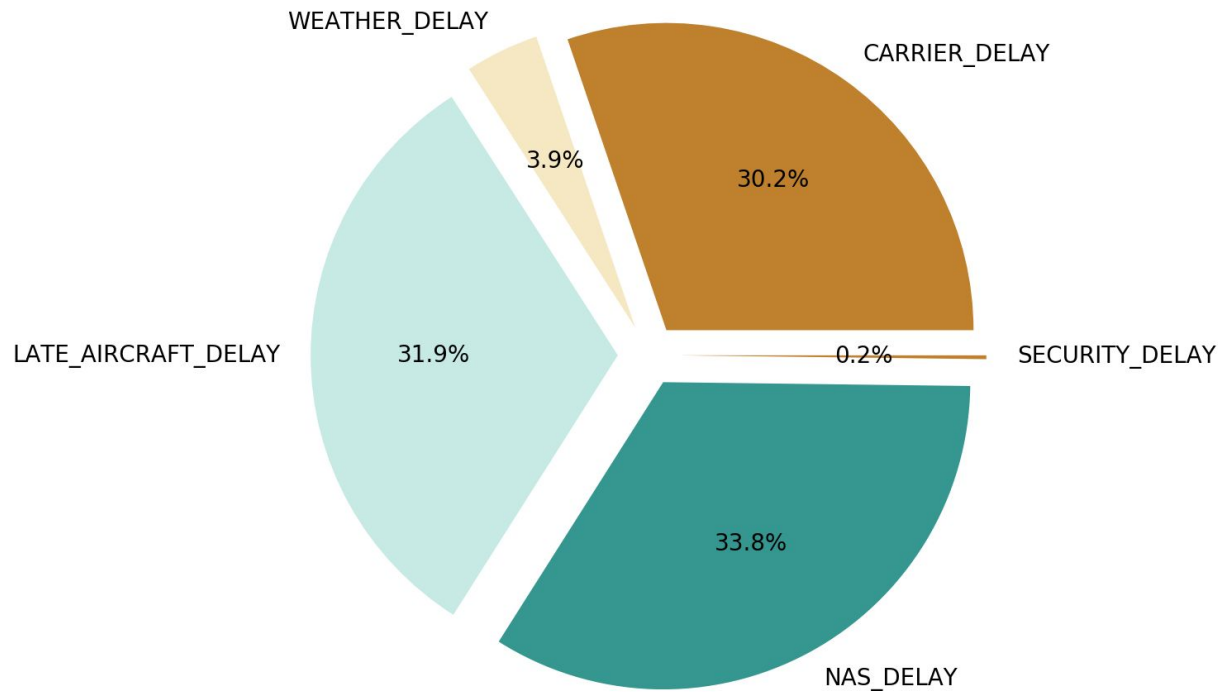
Weather

Security



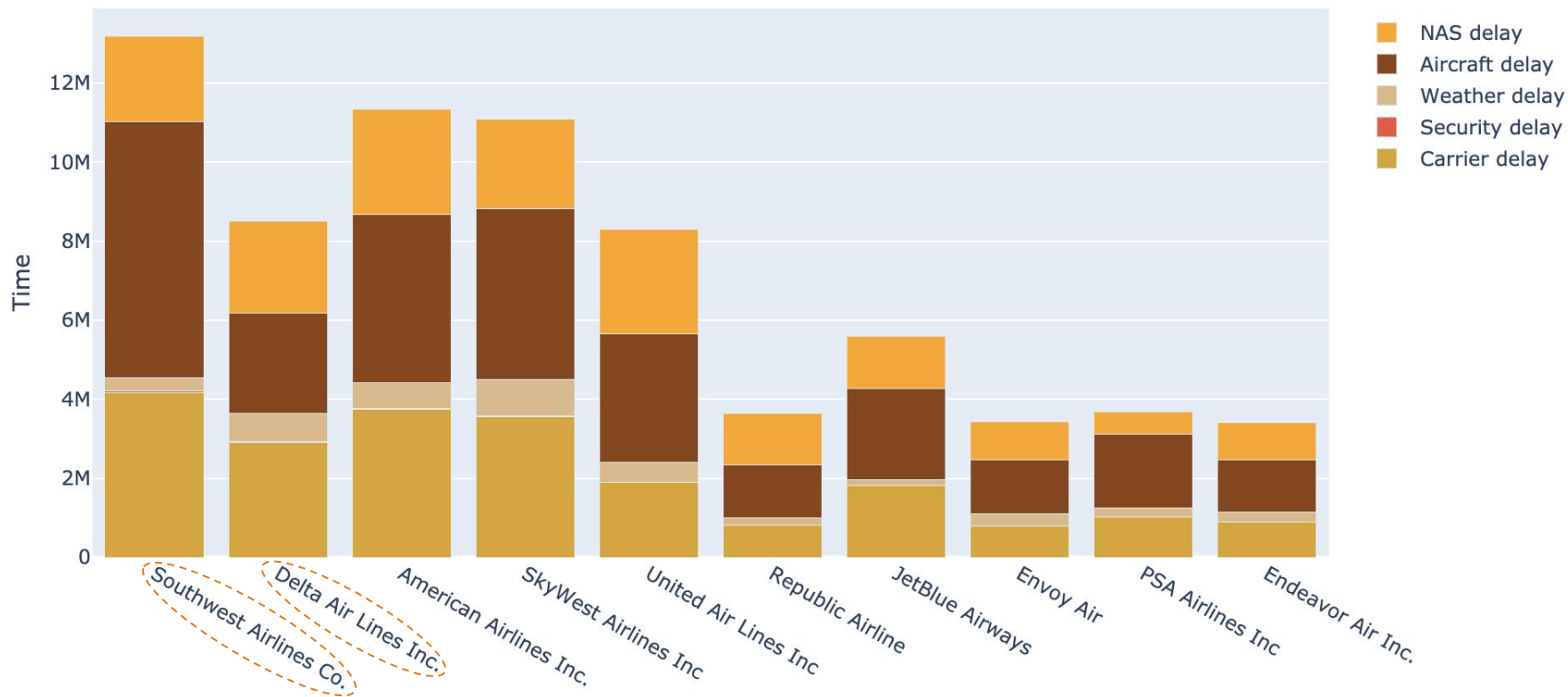
## 4.1 Why is my flight late?

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## 4.2 What's wrong with this airline?



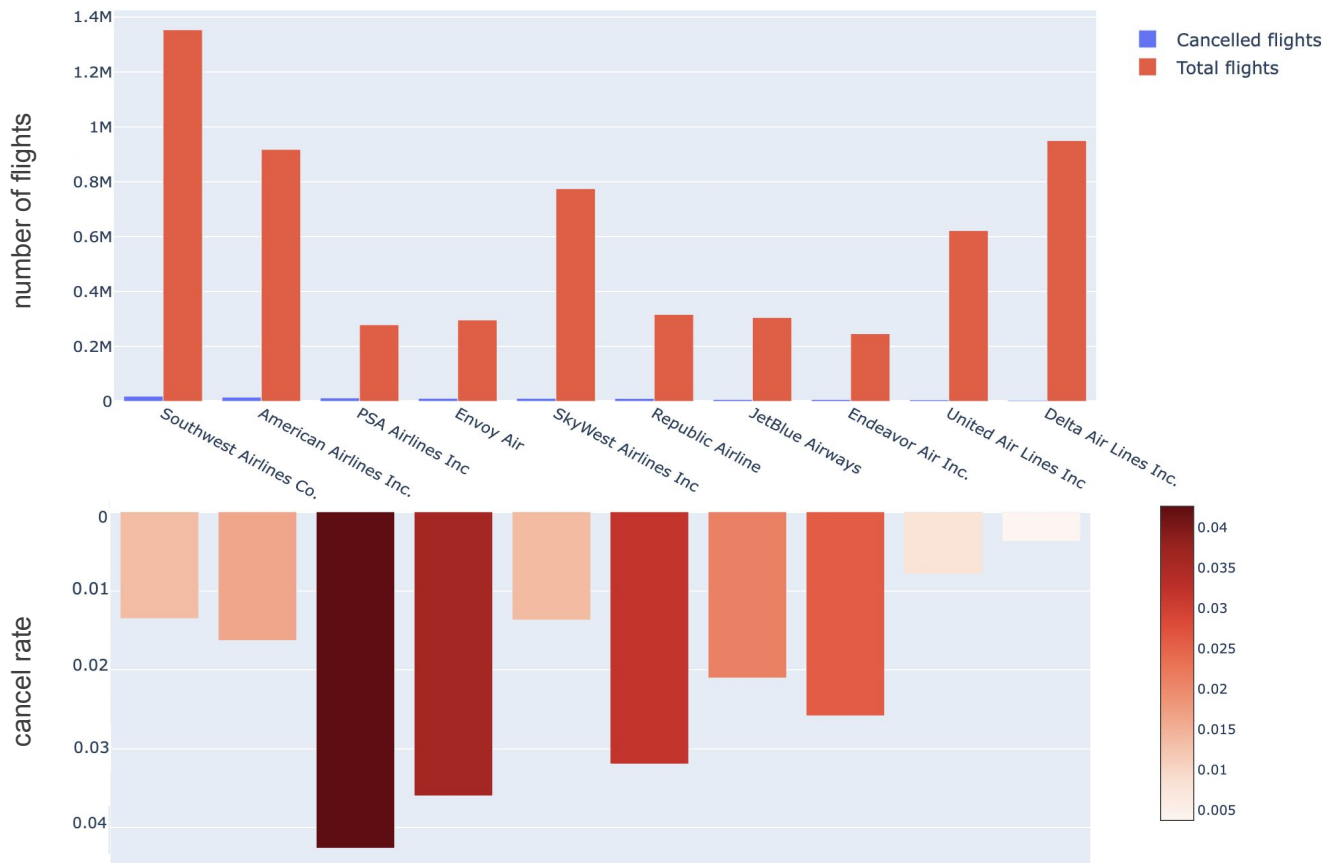
05

## Will my flight be cancelled?

Cancellation distribution

- Airline

## 5.1 Will my flight be cancelled?



06

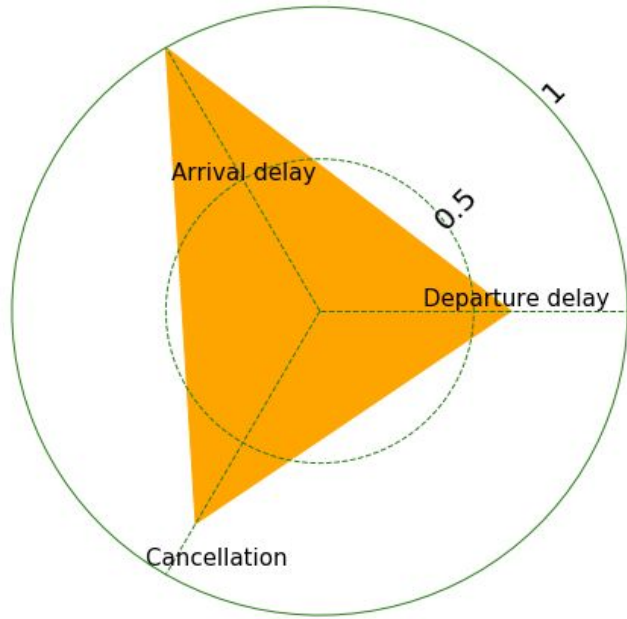


# Which is the best airline?

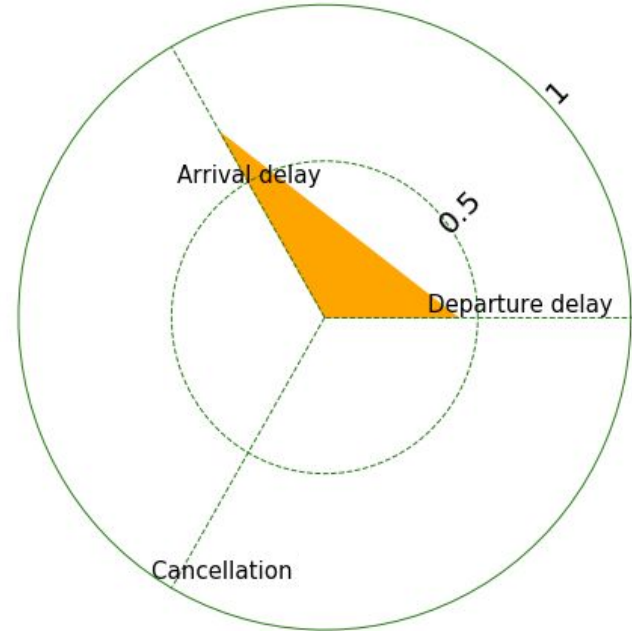
Scoring system

- Rankings of different airlines

## 6.1 Which airline should I choose?

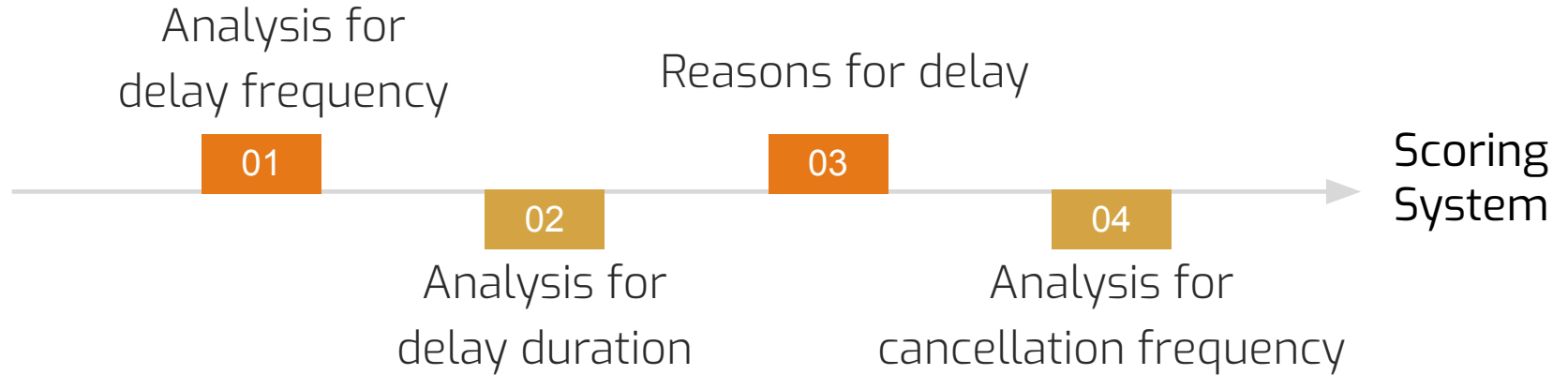


Delta Air Lines



Southwest Airlines

# Conclusion





Thanks