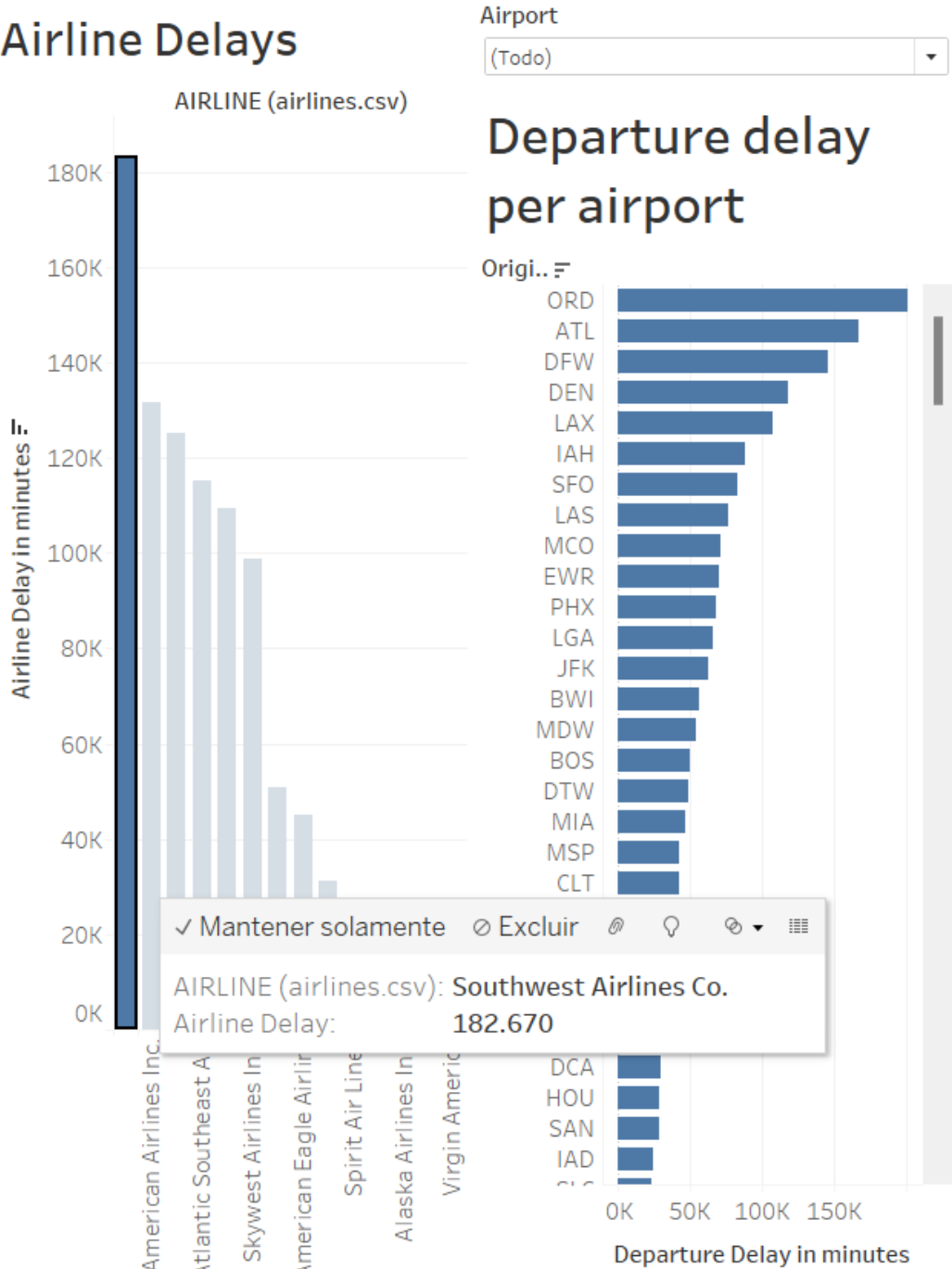# Which airlines or airports have the worst delays?

The airline with the most delays due to its own internal management is Southwest Airlines with more than 180,000 minutes accumulated throughout 2015. The airport with the most accumulated departure delays was Chicago O'Hare International Airport.
With this design you can clearly see which airline and which airport are the most affected.

https://public.tableau.com/views/FlightDelaysandCancellations2_17377403221400/Dashboard2?:language=es-ES&publish=yes&:sid=&:redirect=auth&:display_count=n&:origin=viz_share_link
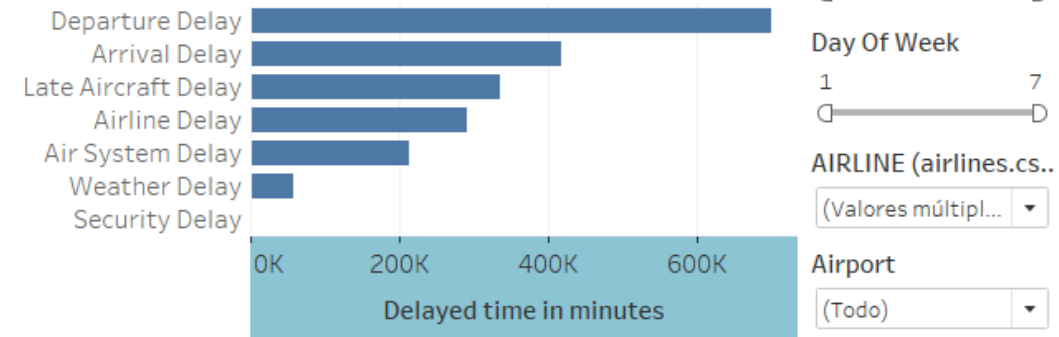
What causes delays?

The seven different types of delay have been grouped together to observe their absolute values. Clearly, the main delay is the departure delay, followed by the arrival delay and the late aircraft delay. The delay most attributable to the company's internal management is in fourth place. If we observe the evolution of the 4 main delays throughout the year, we can observe a certain seasonality in the two main delays: departure and arrival. However, the delay associated with internal management seems to remain much more stable over the 12 months of the year. This casuistry must respond to inefficient internal processes.
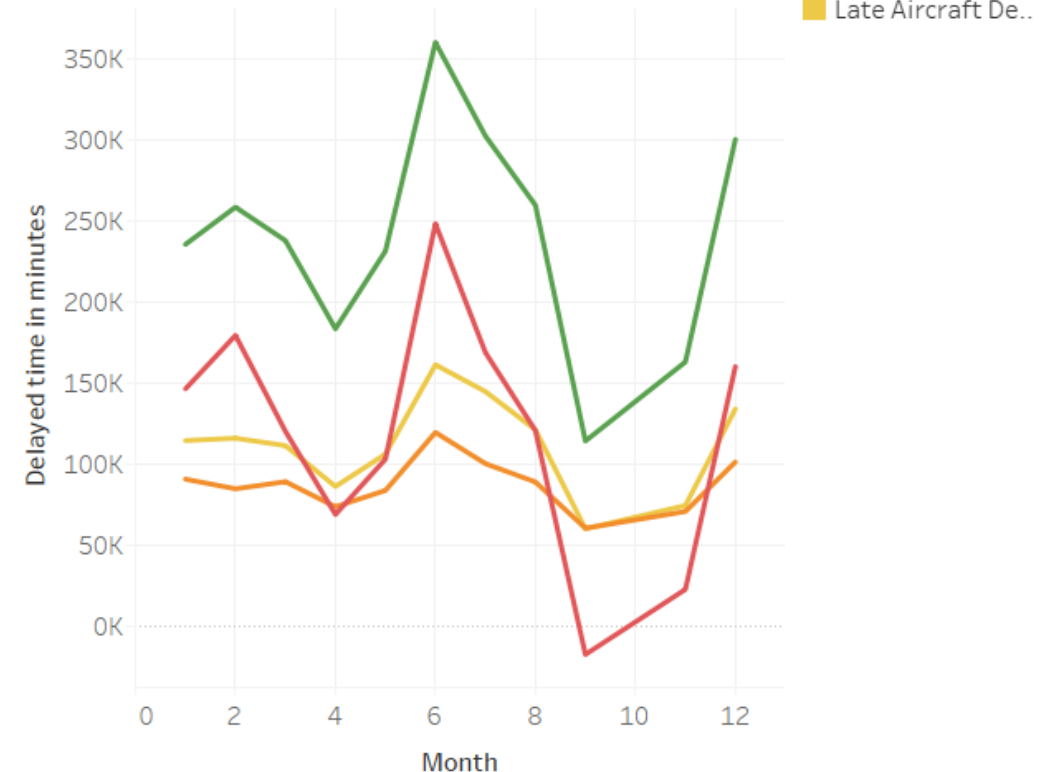
This design allows us to go from a more global vision to a more specific one where we can analyze more manageable causes.

https://public.tableau.com/views/FlightDelaysandCancellations1_17377405983500/Dashboard1?:language=es-ES&publish=yes&:sid=&:redirect=auth&:display_count=n&:origin=viz_share_link

The 7 types of delays

Month
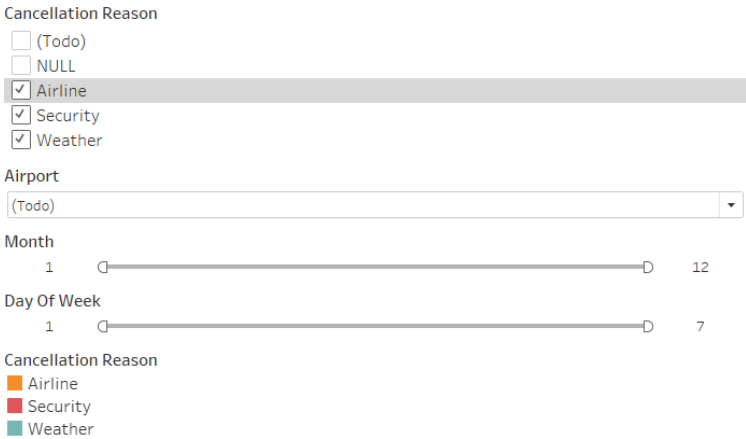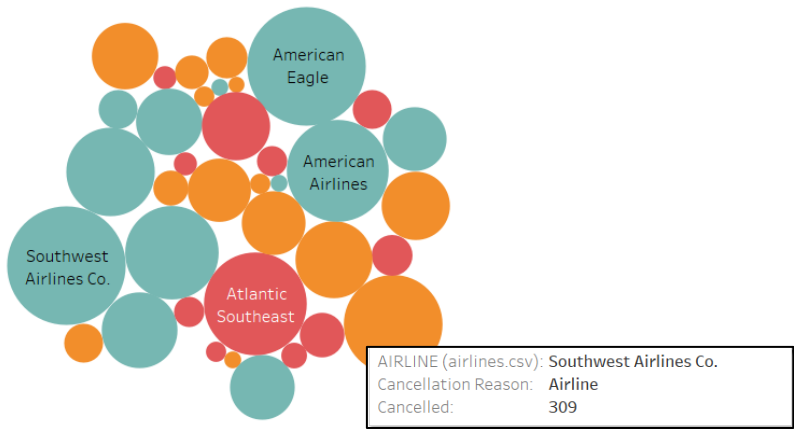1   12

Day Of Week
1   7

AIRLINE (airlines.cs..
(Valores múltipl...

Airport
(Todo)

Nombres de medid..
- Arrival Delay
- Departure Delay
- Airline Delay
- Late Aircraft De..

Main delays evolution

Main airlines with cancellations

The three main causes of cancellations observed are internal airline problems, safety issues and weather factors. Following the colors of the balloons, the first problem is climatic and seasonal, about which the company's management can do little. The causes attributable to internal management again show a uniform behavior throughout the year. We see that Southwest Airlines leads the list of internal problems.
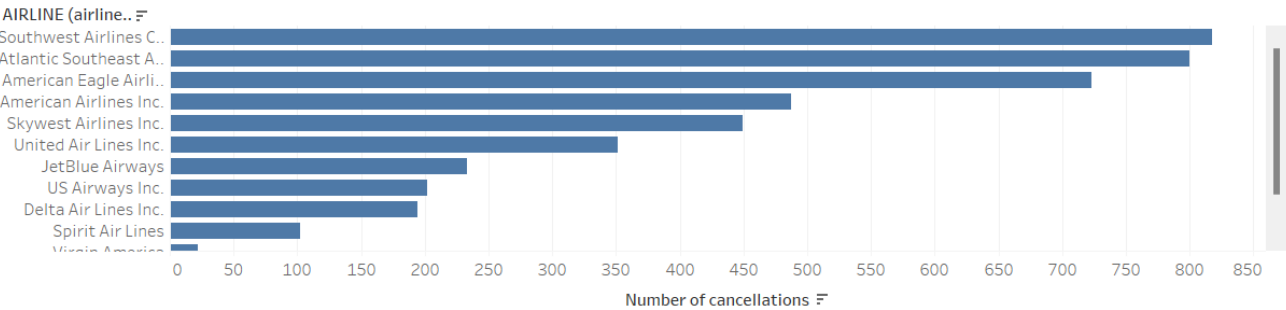
Airlines-Cancelled-Causes

With this design we can also have both a view of the evolution of cancellations over time, as well as a more concrete view of the issues that are most manageable by the company.

AIRLINE (airlines.csv): Southwest Airlines Co.
Cancellation Reason: Airline
Cancelled: 309

Cancellation Reason
- ☐ (Todo)
- ☐ NULL
- ☑ Airline
- ☑ Security
- ☑ Weather

Airport
(Todo)

Month
1 — 12

Day Of Week
1 — 7

Cancellation Reason
- 🟧 Airline
- 🔴 Security
- 🟢 Weather

Airlines with cancelled flights

AIRLINE (airline..
Southwest Airlines C..
Atlantic Southeast A..
American Eagle Airli..
American Airlines Inc.
Skywest Airlines Inc.
United Air Lines Inc.
JetBlue Airways
US Airways Inc.
Delta Air Lines Inc.
Spirit Air Lines
Virgin America

Number of cancellations

Cancellations during the year