# AIR TRAVEL SAFETY

Maddie Bauer

DSC 640

May 29, 2021

# Table of Contents

The problem

Investigation
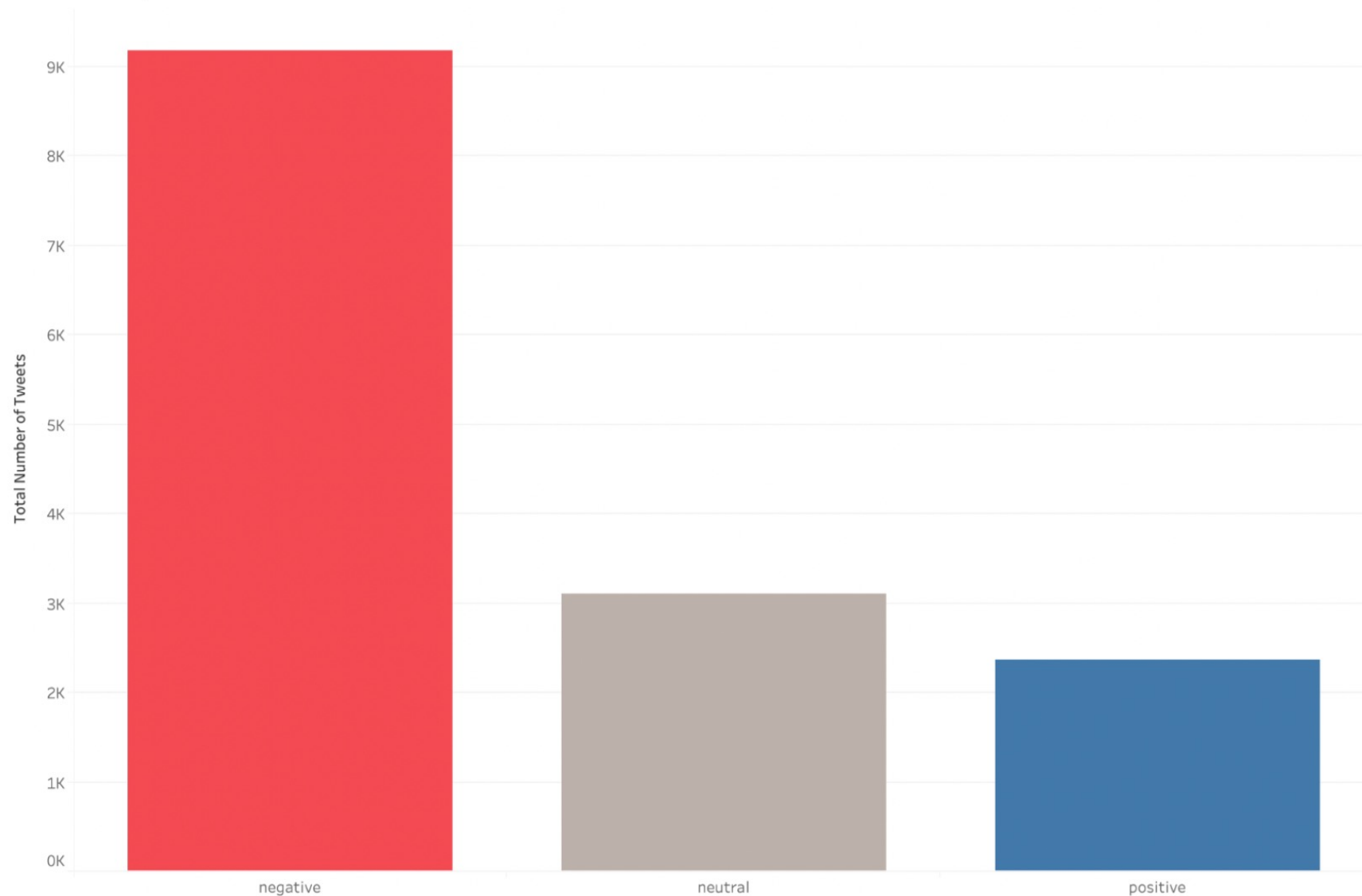
Findings

Key Takeaways

# The Problem

**Public Perception of U.S. Airlines via Twitter**

# Odds of Dying by Mode of Transportation 1999 - 2003
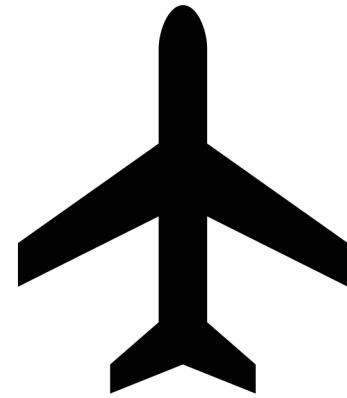
1 out of 7,700

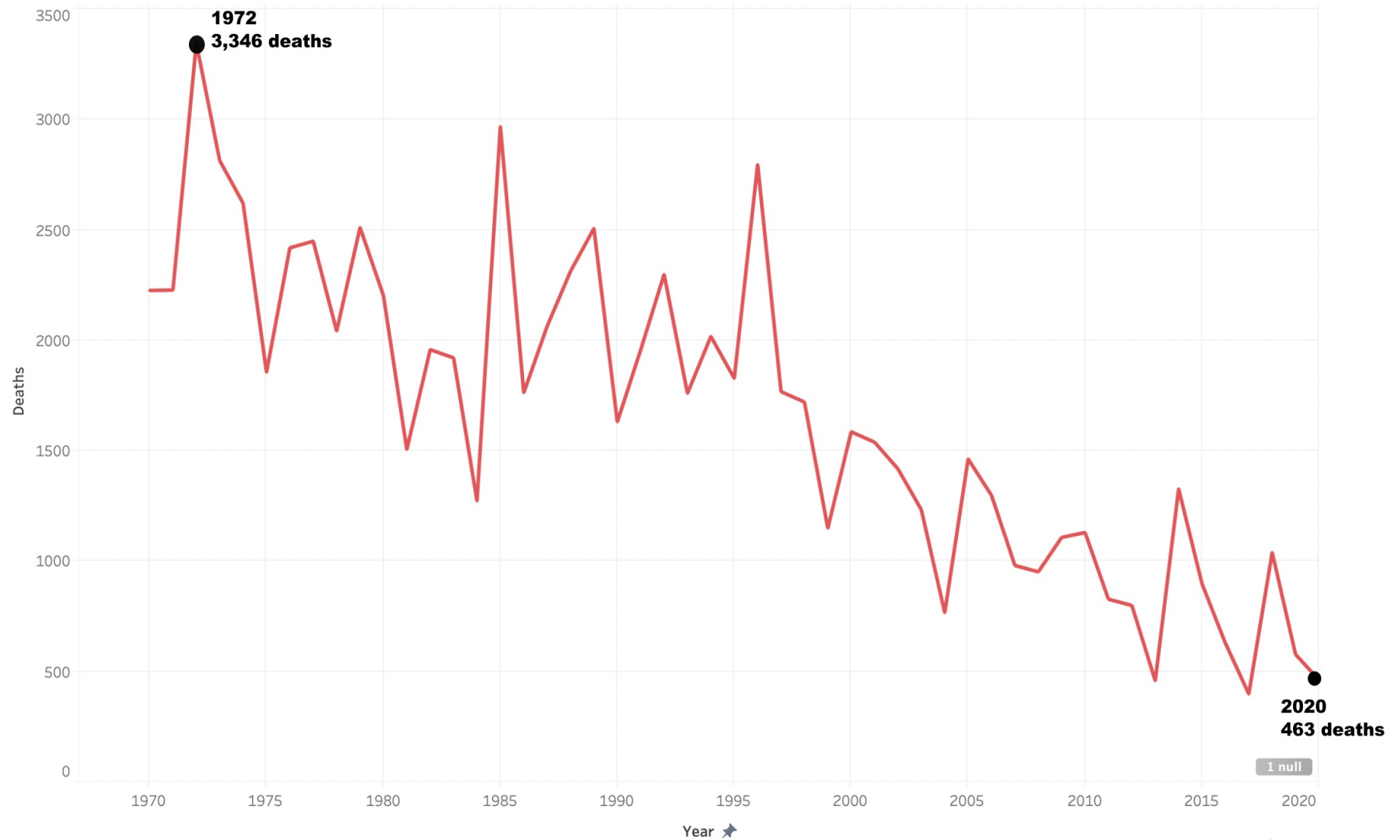1 out of 306,000

1 out of 91,500

1 out of 410,000

1 out of 2,067,000

# What is the trend?

■ Number of deaths continue to decline consistently over time
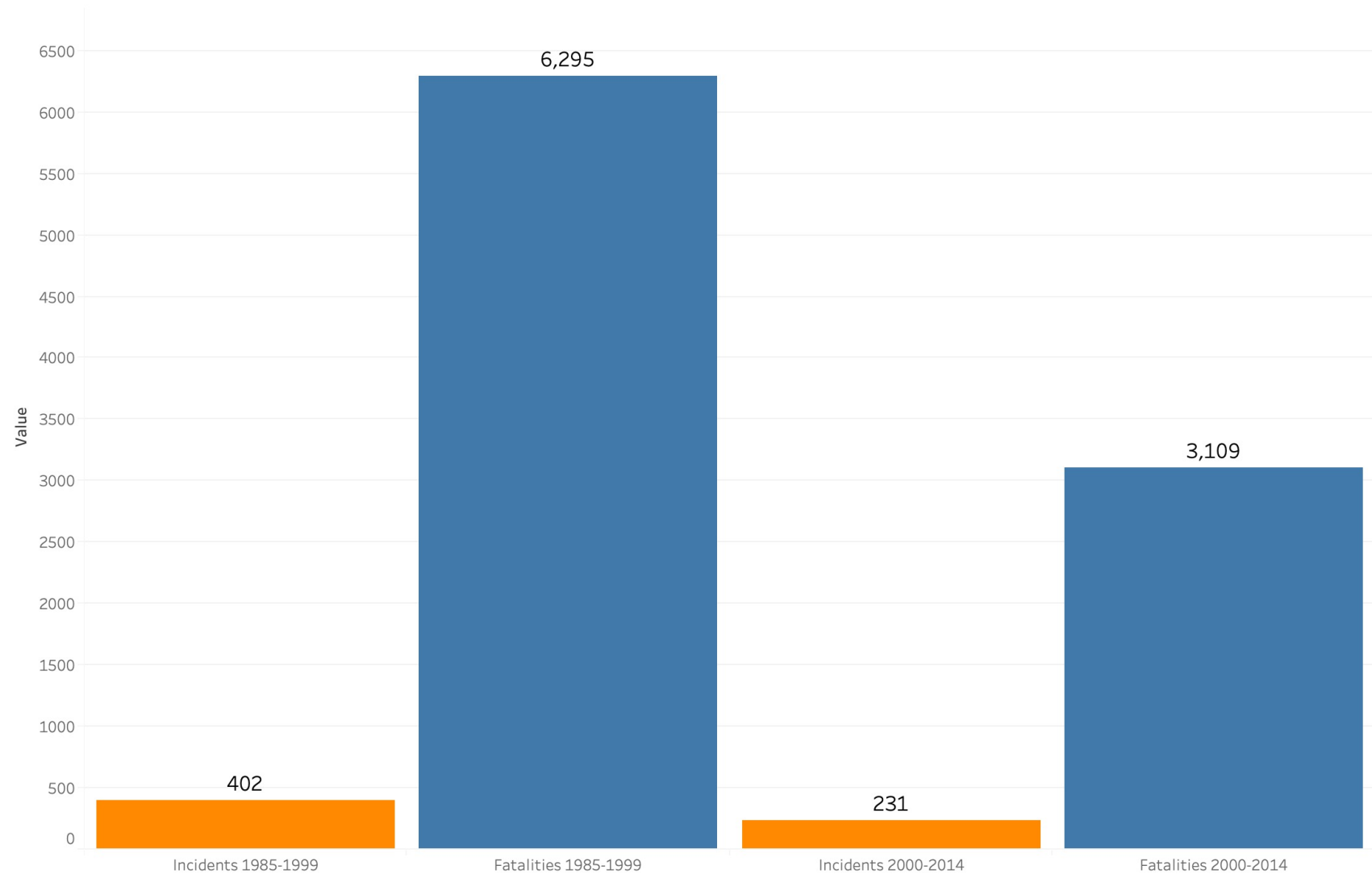
### Number of Airplane Deaths by Year
Significant **decreases** have happened over time



**1972**
**3,346 deaths**

**2020**
**463 deaths**

1 null

Year

Data Source

Both the number of fatalities <u>and</u> the number of incidents are decreasing over time.



Comparing Incidents & Fatalities

402 — Incidents 1985-1999
6,295 — Fatalities 1985-1999
231 — Incidents 2000-2014
3,109 — Fatalities 2000-2014

Data Source

# Number of Fatalities by Airline
1985 - 2014
*International Airlines / U.S. Airlines

| Airline | Total Fatalities |
|---|---|
| China Airlines | 760 |
| Malaysia Airlines | 571 |
| Japan Airlines | 520 |
| American* | 517 |
| Air India* | 487 |
| Delta / Northwest* | 458 |
| United / Continental* | 428 |
| Korean Air | 425 |
| Air France | 416 |
| Avianca | 323 |
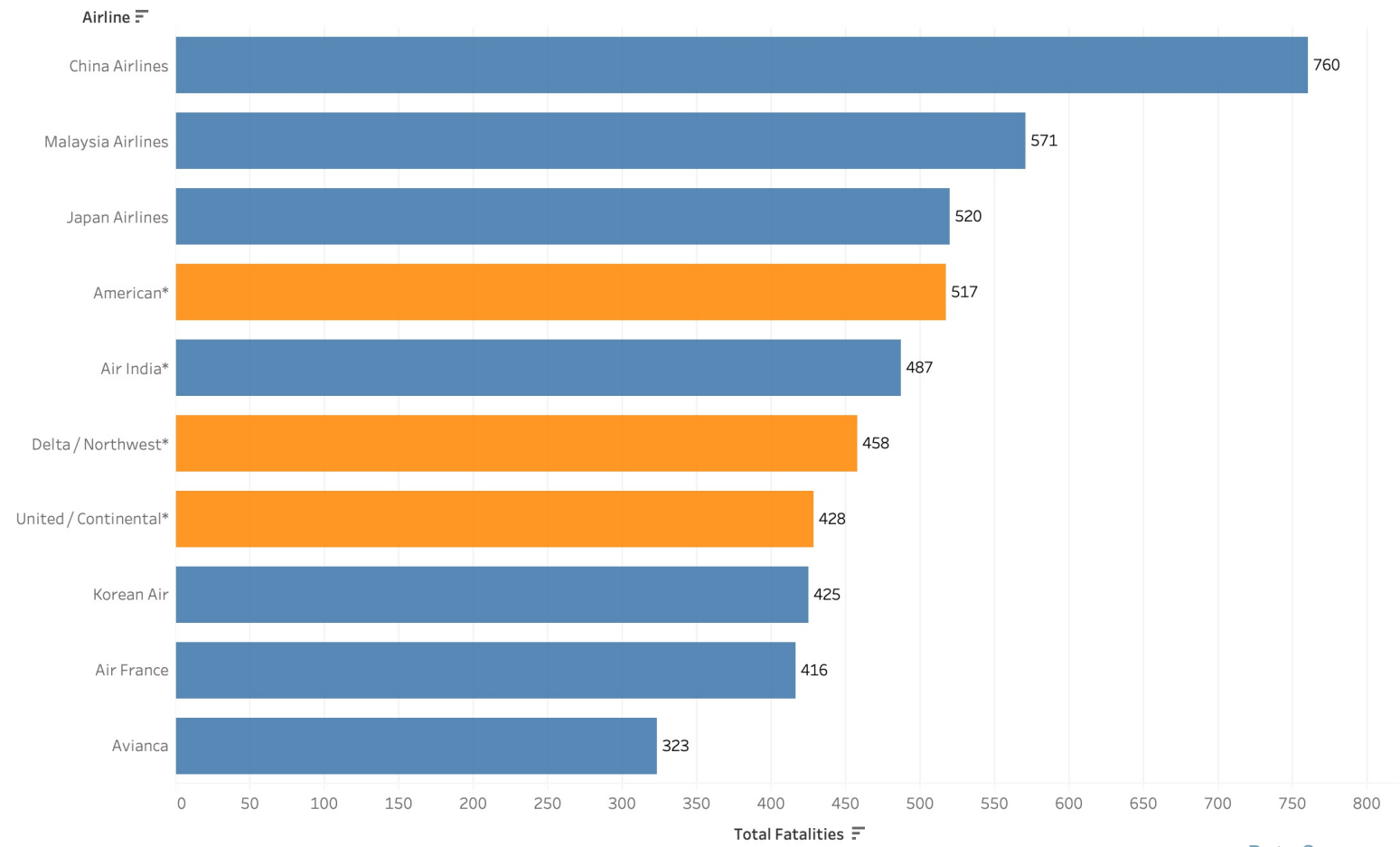
Total Fatalities

Data Source

## 1985-2014

U.S. Airlines are not among the leading 3 when it comes to fatalities

We are 268 times more likely to end up in a fatal car accident than a plane crash.

Comparing Total **Air Fatalities** & Total **Highway Fatalities**



Value

Year 📌
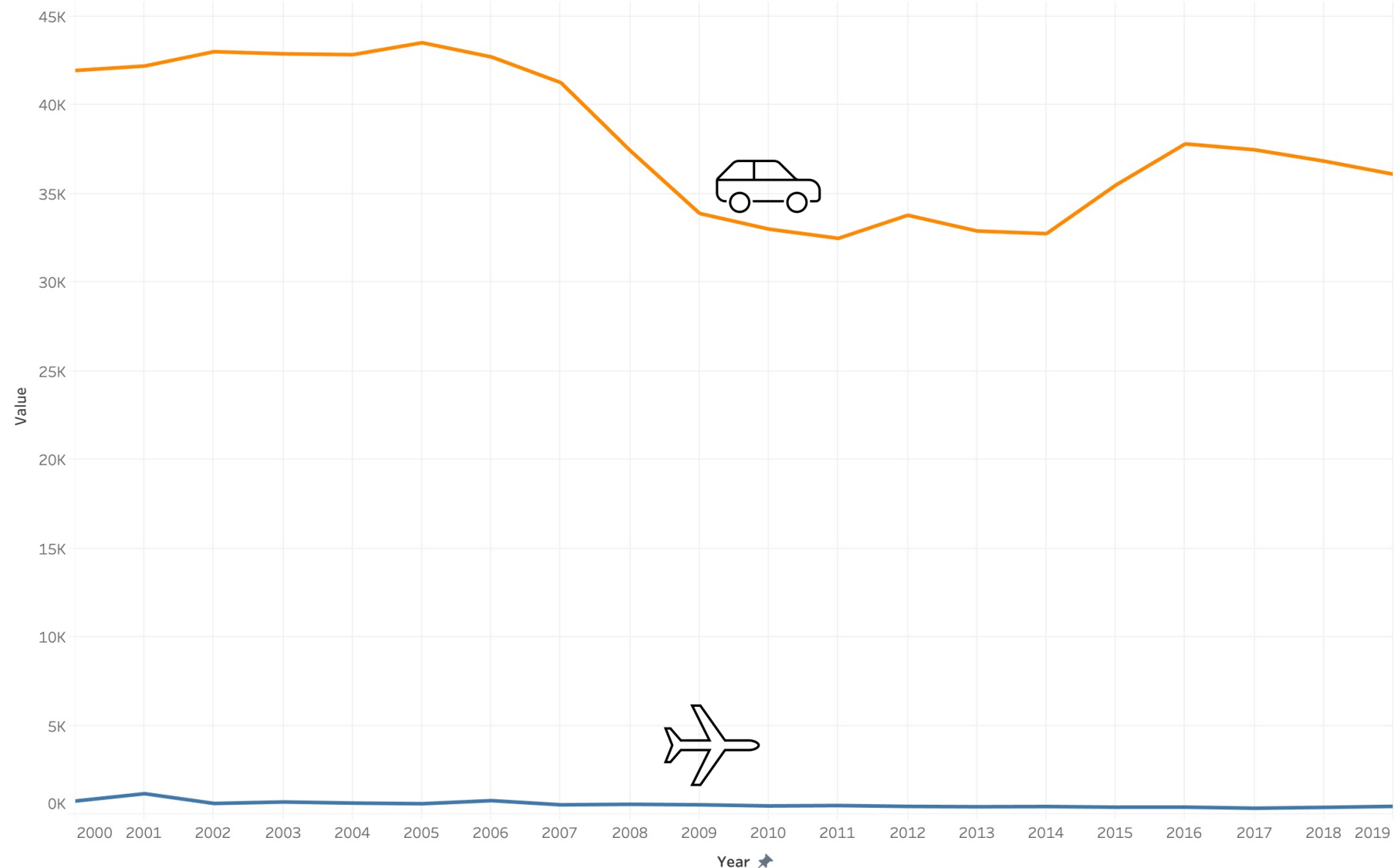
# Key Takeaways

- Social media is steering people away from air travel

- Keep yourself informed

- Air travel is 268 times safer than cars

- U.S. airlines have lower fatality rates compared to international airlines

- Don't be afraid to book your next flight!
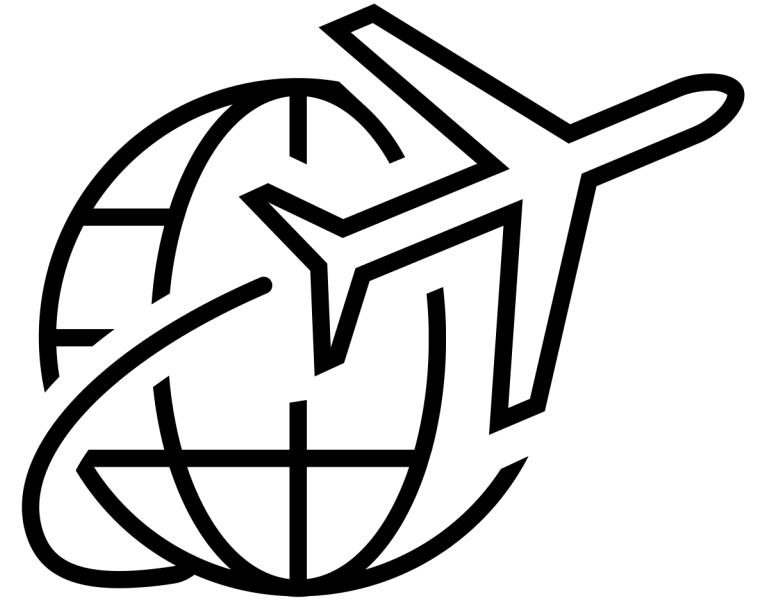
# THANK YOU!

# References

- Aviation Accidents and Incidents. Retrieved May 31st, 2021 from
  https://en.wikipedia.org/wiki/Aviation_accidents_and_incidents

-  Ropeik, D. (September 2006). How risky is flying? Retrieved May 31st from
  https://www.pbs.org/wgbh/nova/planecrash/risky.html

-  GitHub Airline-Safety Dataset
  https://github.com/fivethirtyeight/data/tree/master/airline-safety

-  Twitter Sentiment Analysis Dataset https://www.kaggle.com/crowdflower/twitter-airline-sentiment

- Total Airline Fatalities and Highway Fatalities Dataset
  https://www.bts.gov/content/transportation-fatalities-mode