

Airline Travel - Is it safe?

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February 08, 2021



Introduction:

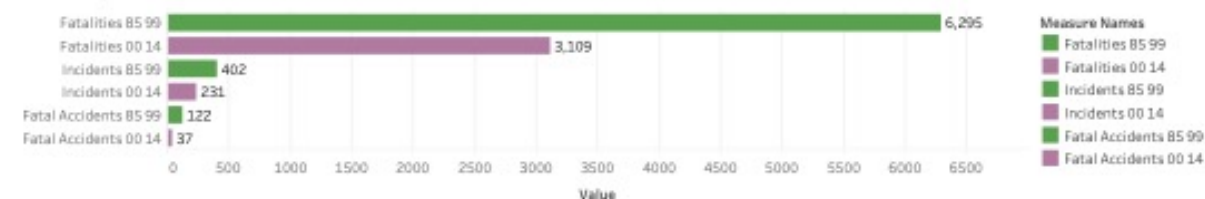
As consumers who are constantly on the go, we are looking for the fastest and also the safest way to get from point A to point B. While traveling long distances, Air travel is generally the most preferred option. But due to a recent unfortunate airline crashes, the media has been promoting statistics stating air is no longer a safe way to travel. What was previously thought as the safest way to travel, especially when compared to automobiles, is now being presented as one of the most dangerous to the public. After all, an air crash is catastrophic, with more loss of life, injury and property damage than a car accident.

But are any of these claims based on facts? Let's see below some of the details based on facts.

Fatalities & Crashes:

According to the data compiled by the Bureau of Aircraft Accident Archive, we see a great reduction in the number of unfortunate incidents over time. There has been an advent in technology over the years which has a great impact on this number reduction. When we look at below chart which shows fatal accidents during 1985-99 & 2000-14. We can observe that there were 67% less fatal accidents in 2000-14.

Reducing Numbers Over Time

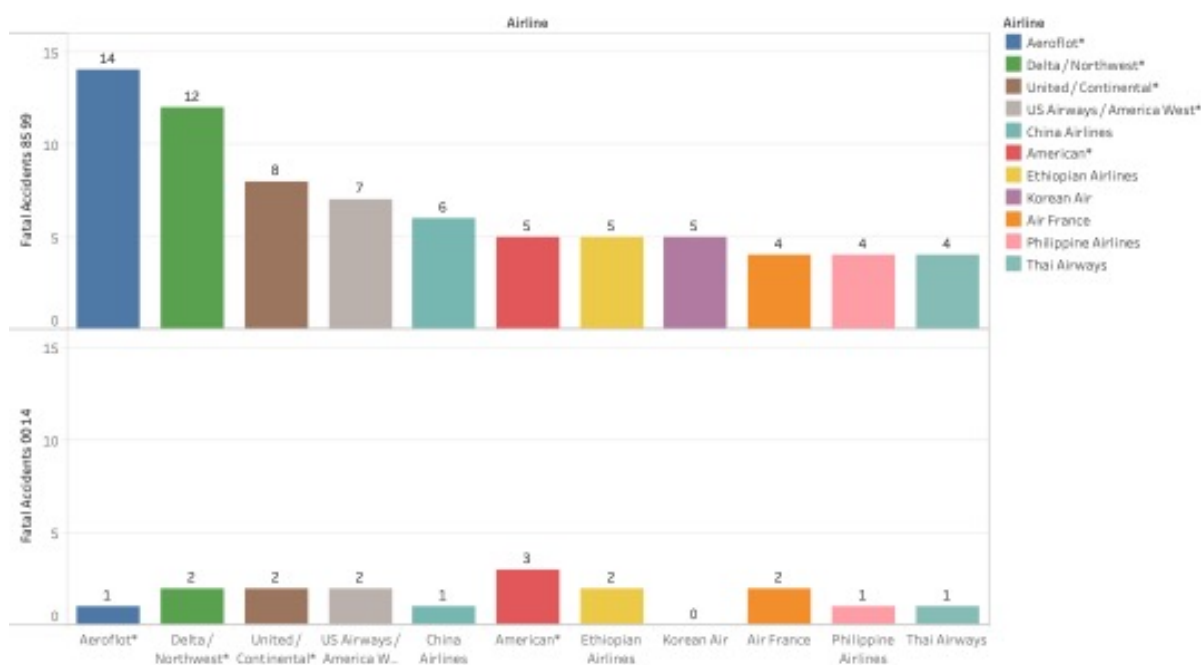


Fatalities 85 99, Fatalities 00 14, Incidents 85 99, Incidents 00 14, Fatal Accidents 85 99 and Fatal Accidents 00 14. Color shows details about Fatalities 85 99, Fatalities 00 14, Incidents 85 99, Incidents 00 14, Fatal Accidents 85 99 and Fatal Accidents 00 14.

Airline Incident Numbers:

It is evident that airlines work with technology companies a lot to make sure that air travel becomes more affordable, reliable safe and convenient. As technology advancing, Airlines companies works a lot to make sure air travels becomes safest way to travel.

Airline Fatal Accidents



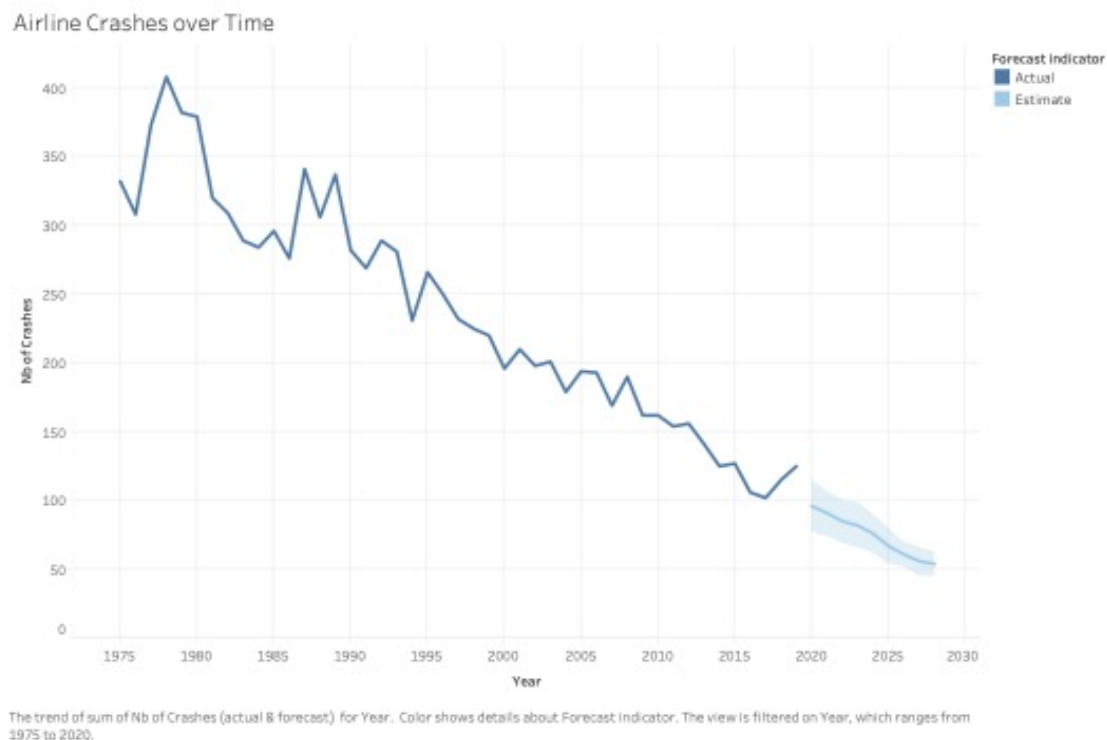
Sum of Fatal Accidents 85 99 and sum of Fatal Accidents 00 14 for each Airline. Color shows details about Airline. The view is filtered on sum of Fatal Accidents 85 99, which ranges from 4 to 14.

Every Airline company has taken a lot of interest in regard to the safety measures they take and constantly have made sure to invest in the R&D department to make travel safer for their customers. These investments have shown in results. Below is an overview of the number of fatal incidents of a few top airlines where

we can easily see that all the airlines had very a smaller number of incidents in 2000-14 as compared to 1985-99.

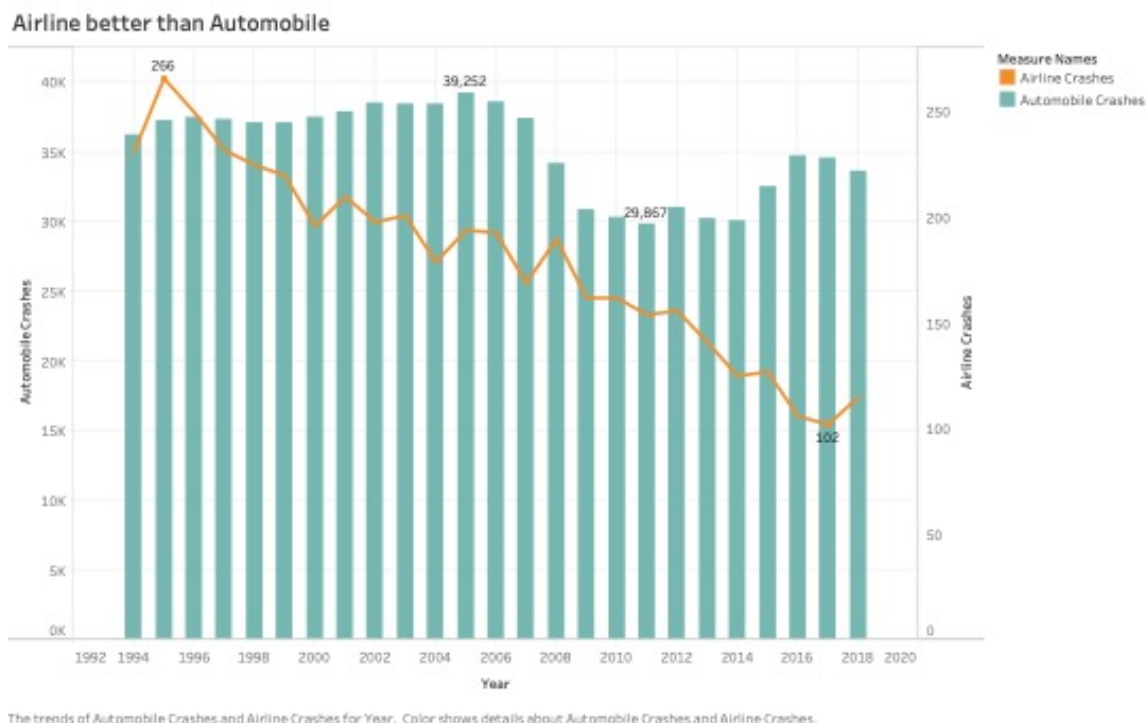
Dropping Number over years:

We can also see in the below chart that accidents with airlines reducing consistently year over year which is not the same when we look at accidents happening every year with automobiles. It clearly shows that automobile crashes continued to decrease over time and with the prediction of future based on the current numbers, we should eventually see it dropping to a very low number. This surely is a good sign and confidence booster for all airline travelers.



Airline vs Automobile:

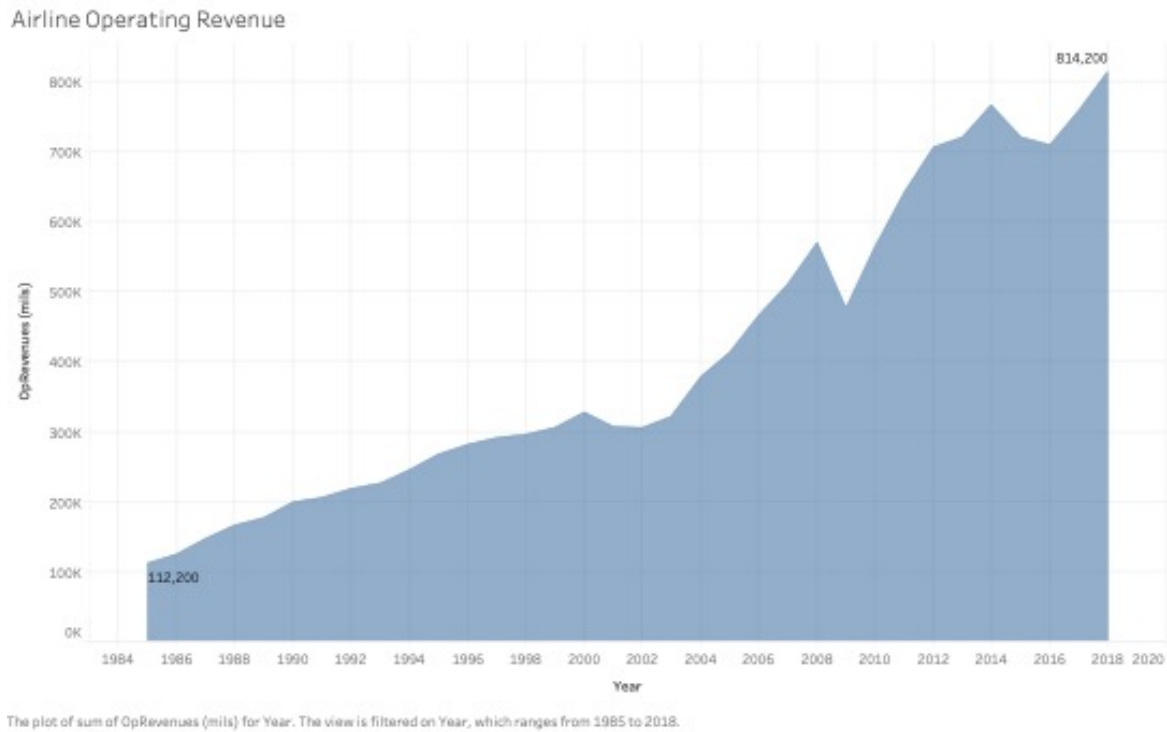
Airline and Automobiles are two of the most widely used modes of transportation in the world. There are a huge number of people who travel by road on a daily basis. So, it would surely be ideal to compare the number of Airline incidents versus the Automobile incidents and see if Airline industry is actually as bad as the media report.



When we compare the data compiled by the National Highway Traffic Safety Administration vs the statistical data from Bureau of Aircraft Accident Archive, we can clearly see that Air Crashes are very low when compared to the Automobile Crashes. The highest number in Airline crashes was 266 back in 1995 and the number saw the lowest of 102 in 2017. Whereas the numbers in the Automobile department has in the range of thirty thousand almost every year. That is a huge difference in the numbers between the Airline and Automobile incidents.

Airline Business Revenue:

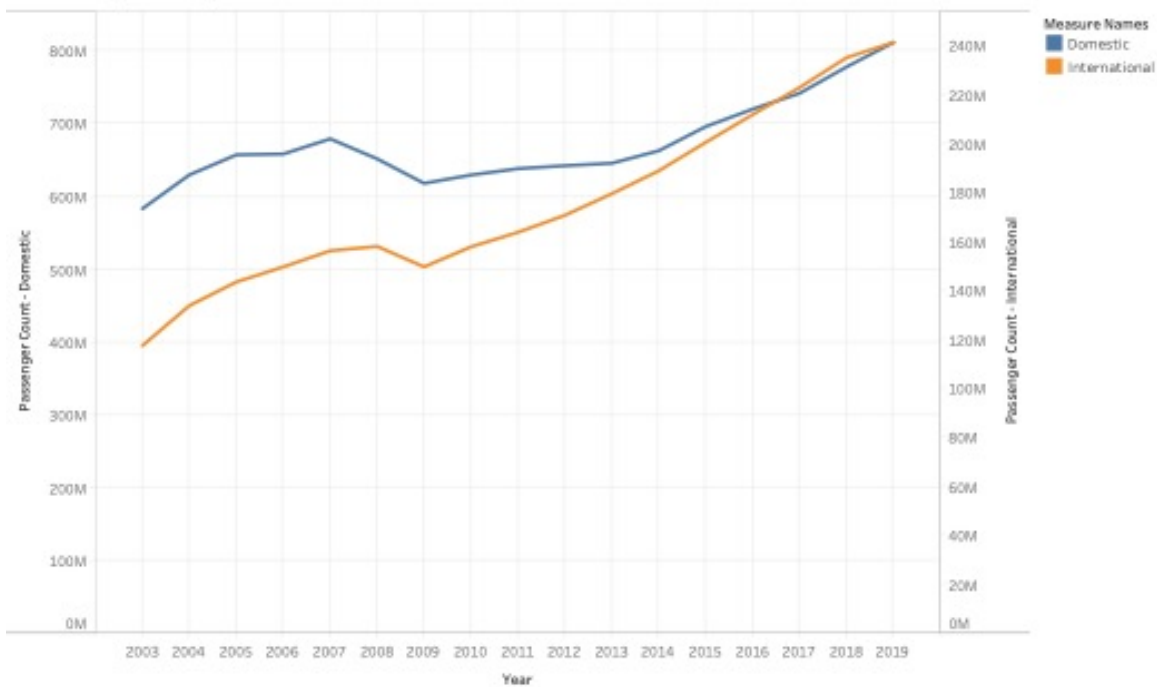
Below chart shows airlines operating revenue, we can easily visualize that revenue is increasing year over year with some exception. When during recession time, airline industry doesn't seem to be much impacted. Based on this it seems like more air traveling happening and as a result airline are earning more year over year.



Airline Passenger Counts:

One other important feedback for any traveler would be another person who has travelled. Irrespective of these bad sentiments, the airline passenger count has been constantly increasing. People have shown more confidence in airline travel and the numbers prove the same.

Increasing Passenger Count



The trends of Domestic and International for Year. Color shows details about Domestic and International.

Conclusion:

Based on factual data we can clearly see that Airline Industry has put in a lot of effort and time to improve the experience of the travel to its customers. Yes, it is true that Airline crash tend to have more impact than an Automobile crash and that is the reason it grabs more attention and makes people more sensitive to them.

Fortunately, the air industry continues to focus on the safety of all passengers. The joint effort of industry leaders, air traffic controllers, pilots, and maintenance engineers create an army of professionals focused on a pleasurable, safe experience for all passengers. By doing so, air travel continues to be robust, with a growing number of passengers traveling for business, as well as pleasure. This coordinated effort continues to provide a superior means of safe travel, when compared to auto related travel. Through unrelenting commitment to investments in safety and technology, the air industry is poised to continue being a leader in safe travel.

Reference:

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<http://www.baaa-acro.com/statistics>

<https://www.metropolitanshuttle.com/articles/road-vs-air-travel-pros-and-cons/>

GitHub Link:

<https://github.com/vinaynagaraj88/DSC640---Data-Presentation-Visualization>



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