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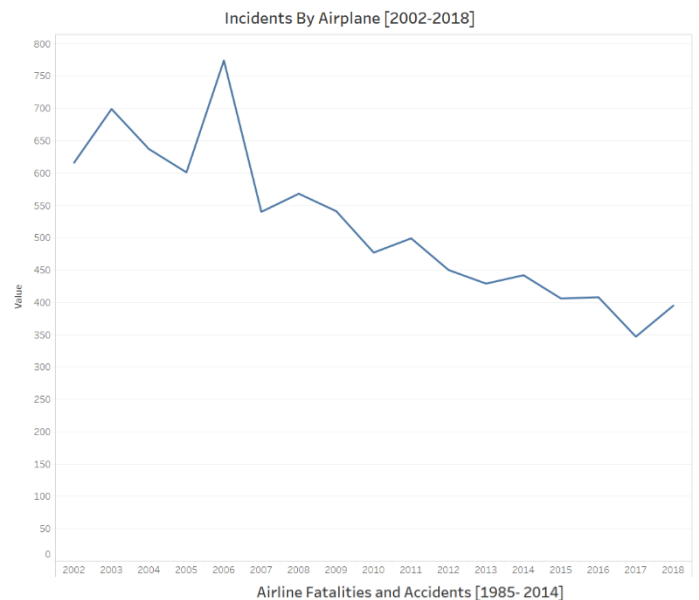
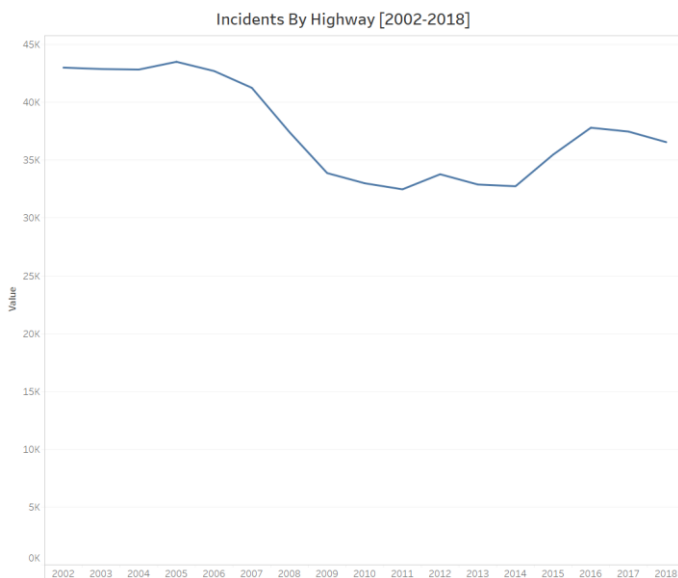
## Safest Way of Travel: Air

The way we are traveling is constantly changing – especially now more than ever as we think about how safe our modes of transportation are. After conducting various exploratory data analysis on different datasets, it is safe to conclude that today it is safe to travel by air than ever before.

### What is the safest mode of transportation?

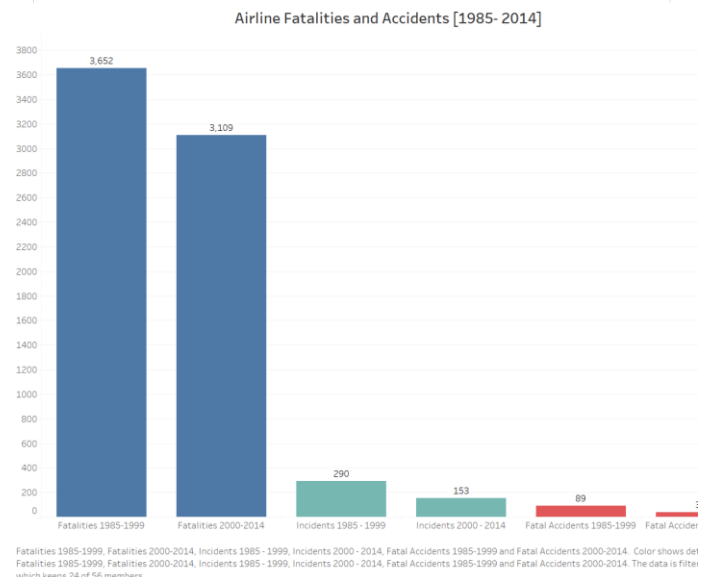
One of the best ways to show and encourage airplane traveling is by exploring and sharing the risk levels that currently exists.

In the left image I am showing the total incidents in the highway by motor vehicles while the right image illustrates the total incidents by airplane.



### Travel Mode: Airplanes

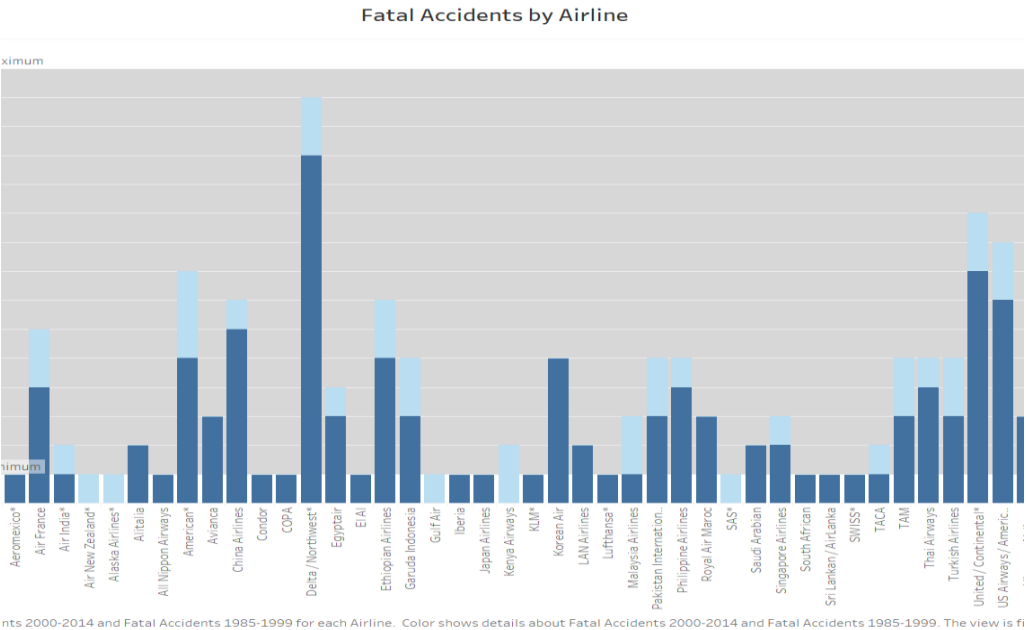
After 2006, the number of total incidents has continuously decreased - Even with 2001 nation's terrorist attack – the overall incidents dropped by nearly 50%. As well as never being able to hit 1000 incidents. Incidents and fatal accidents have overall hit an all time low compared to how it was prior 2000s. Overall, it is safe to conclude that commercial passenger airline incidents are extremely rare in today's day and age.



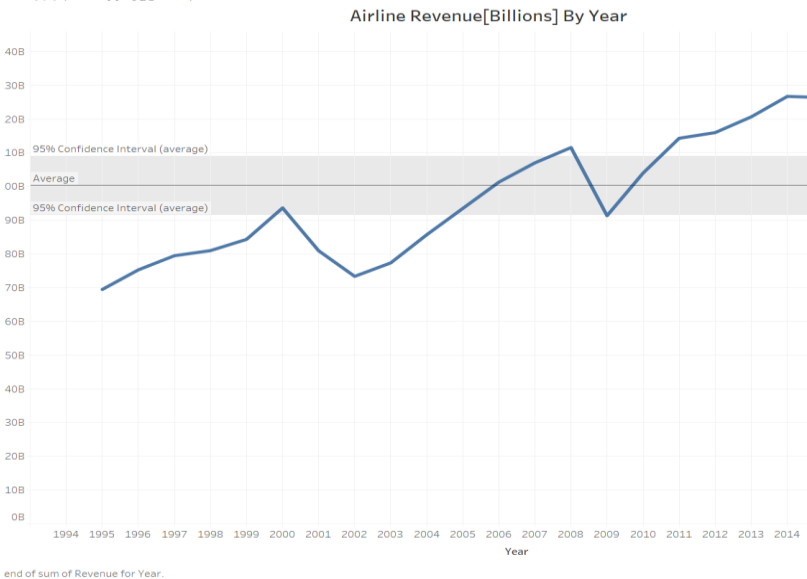
Travel Mode: Motor vehicle

Most people rely on private car travel on daily basis compared to airplanes that some may only use one or twice a year. From the line charts above, incidents by vehicles have remain steady without a significant improvement of safety. Its important to note that trips via car during tough conditions are not as preventable as airplanes. During tough weather, flights are often delayed or cancelled while vehicle travel is tough to delay or prevent with regulation.

Improvements by airlines



While technology has helped drive the airline industry safety – great strides in safety management systems and human insights have allowed individual airlines to improve their rates of fatal incidents by nearly 50%. Some airlines have not experienced any fatal incidents from 2000 to 2014 giving us 100% security and safety in traveling with them.



Air Industry Revenue

This line chart shows the airlines operating revenue. Revenue has increased year after year except for the 2008 national recession which did not have a concerning impact. This shows that people continue to travel at a steady rate resulting in big earning year over year.

**Conclusion:**

Risks are part of our normal daily lives, but it is important to note that this blog post shed lights on the safety improvements that the airline industry has made to prevent fatal incidents that can lead for injuries that may include death. Although, public distrust continues to grow as the news outlets pushes a propaganda of misleading information regarding what was once seen as the safest way to travel the dashboard, Executive summary and this blog post prove otherwise.

## Reference

Airline Safety. (2018). Retrieved from <https://github.com/fivethirtyeight/data/tree/master/airline-safety>

Airplane Crashes Since 1908. (2016). Retrieved from [https://www.kaggle.com/saurograndi/airplane-crashes-since-1908/version/4#Airplane\\_Crashes\\_and\\_Fatalities\\_Since\\_1908.csv](https://www.kaggle.com/saurograndi/airplane-crashes-since-1908/version/4#Airplane_Crashes_and_Fatalities_Since_1908.csv)

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