



Is Airline Travel more riskier

INTERNAL CIRCULATION ONLY

Arindam Samanta | DSC640 | 09/25/2021

Introduction

My dashboard has 2 broad divisions of the dataset for the global airlines statistics.

- 1985-1999 – a span of 15 years
- 2000-2014 – a span of 15 years post 2000
 - Data source used for the above 2
(<https://github.com/fivethirtyeight/data/tree/master/airline-safety>)
- In addition I have used supplemental data from here:
(<http://www.informationisbeautiful.net/visualizations/plane-truth-every-single-commercial-plane-crash-visualized/>)

TRENDS AND CONCLUSION

The dashboard shows the Airlines Fatalities trend over the years.

Starting from upper left corner and moving sidewise towards right and the all the way to the next row from Left:

Plot1: Incidents & Fatal Incidents by Airlines(2000-2014)

Plot2: Comparing Total Fatalities between first 15 years with the next 15 years

Plot3: Top 10 Airlines by Fatality count (2000-2014)

Plot4: Total Incidents, Fatal Incidents and Fatalities Count

Plot5: Airlines Fatality Trend Over Time (Supplemental Data)

Plot6: Comparison of Fatalities by 15 years per Airlines

Following that statistics it looks like that comparing the data between the first 15 years to the next 15 there is a decline in the overall airline crash incidents followed by fatalities. Here are the numbers for #of incidents, #fatal accidents and # fatalities respectively. Also from the supplemental data set it shows that the fatality has a downward trend over the years starting in 1994 till 2016.

DESIGN METHODOLOGY FOR MY VISUALIZATION:

I have used affordances as a general design concept. These are aspects inherent to the design that make it obvious how the visualization is to be used. I can leverage visual affordances to indicate to our audience how to use and interact with my dashboard. The 3 principles from our book used here are:

- 1) highlight the important stuff,
- 2) eliminate distractions, and

3) create a clear hierarchy of information.