

DSC640-T301 - 4.3 Project Task 4: Infographic

Soukhna Wade

Bellevue University

**DSC640 Bellevue University**

**07/26/2020**

**Soukhna Wade**

### **4.3 Project Task 4: Infographic**

[https://github.com/souwadeGit/DSC640\\_SWade](https://github.com/souwadeGit/DSC640_SWade)

---

To find the safest and dangerous airline, I first had to gather the number of incidents, accidents, and fatalities. China Airlines has the highest fatality number. It had 535 fatalities between 1985-1999 and 225 fatalities between 2000-2014. Albeit not having a constant fatality rate, it still has the highest amount of accidents and fatalities. Following is Malaysia Airlines, Japan Airlines, American Airlines, and Air India. To visually see the number of fatalities, I used Power BI and Tableau to make a TreeMap and others. Another effective way I used to see the fatality rate is the stacked area chart, which shows how much incidences happened and where they overlay in cases. In my opinion, the TreeMap is the most effective, as it is easy to see the difference of area and each rectangle labeled. Using fact-checking and the TreeMap I previously mentioned, it is evident that TAP Portugal Airlines has a low fatal accident and incident rate. TAP has one of the best safety records of any airline in the list; followed by Hawaiian Airlines, Virgin Atlantic, and Finnair. TAP Airlines has zero incidences and zero fatal accidents between 1985 to 2014, making the safest out of the four airlines mentioned beforehand. If I were to present to my internal team I would start with the data about the airline, to give a “cataphoric” idea about the visual graphs, the graphs shown would be something easy to sight-read, like a TreeMap or a bar graph. As you can see TAP continues to be one of the few airline companies that have not

recorded a plane crash in over 30 years, according to the JACDEC report, the reason why it dropped three places in the ranking has to do with the airline fleet age, which is above the average of other fleets. TAP has plans to renew.

**Supplemental dataset to the original:**

[https://www.kaggle.com/shrirangphadke/airplane-crash-analysis/comments?select=Airplane\\_Crashes\\_and\\_Fatalities\\_Since\\_1908.csv](https://www.kaggle.com/shrirangphadke/airplane-crash-analysis/comments?select=Airplane_Crashes_and_Fatalities_Since_1908.csv)

## References

<https://www.portugalresident.com/tap-among-10-safest-airlines-in-the-world/>

<https://www.worldfinance.com/strategy/market-conditions-threaten-malaysia-airlines-survival>

[https://en.wikipedia.org/wiki/TAP\\_Air\\_Portugal](https://en.wikipedia.org/wiki/TAP_Air_Portugal)

[Infographics: The Benefits of Their Use Online](#) (Visually, 2015)

<https://www.kaggle.com/shrirangphadke/airplane-crash-Dataset>

