

Flight Issues and popular airlines

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Topics and Data Sources

Flight Issues

- Delay - <https://think.cs.vt.edu/corgis/csv/airlines/airlines.html>
- Safety - <https://data.world/fivethirtyeight/airline-safety>

Most used airlines

- Revenue - mit.edu/airlinedata
- Passenger counts - <https://data.sfgov.org/Transportation/Air-Traffic-Passenger-Statistics/rkru-6vcg>

Data visualization in this presentation will give insight to airlines and those who concern with flight business which area to improve, and investors will see which airline is used the most.

Tools

- Python for Data Extraction and Cleaning
- HTML, CSS, JavaScript for attaching tableau files
- Created Data Visualizations in Tableau, and Datamatic

Flight Issues

Flight Delays

(delay by month & delay by year[2004-2015])

- How many flights arrive on time?
- Compared five causes of flight delay to see which reason makes the flight delay the most in each month?
- Which kind of flight delay is decreasing and increasing over the years?
- Which kind of flight delays will keep increasing or decreasing?
- Over the year, does flight delay got increased or decreased?

Flight Issues

Flight Safety

Which airlines is the safest?

- Fatalities
- Fatal accidents
- Incidents

Compared 56 airlines

Popular airlines

Revenue

Which airlines has the highest revenue?

Compared data from 2007 to 2016 of 10 popular domestic airlines

Passenger

Which airlines are used the most by travellers to and from to Los Angeles domestically and internationally?

Compared passengers data from July 2005 to December 2017 of 57 airlines

Conclusion

From the visualization, we are able to see that

About 77% of flight arrive on time. National Aviation system the kind of delay that is highest. Delays are highest in June, July, Aug and December. We had the lowest delay rate in 2012 and delay rate is kind of decreasing. Delay causes such as NAS and security are keep decreasing. Others need improvement.

Safety- showed in dashboard

Delta Airline has highest revenue, and United Airlines is the most popular airline.