## Flight aware?

## Team Members

Peter Resnick, John Ekblad, Todd FitzGerald, Dennis Boston, Scott Kaufman

## Description

Analysis of air transportation delays; impacts considering various controllable(operational) and non-controllable (weather) factors.

## Research Questions

1. Total number of flight delays – regional vs hub
2. FAA flight delay compensation statistics since rule implementation
3. How do different airport handle different weather conditions and what resultant impact to operations – wind, rain, snow, operational, fog.
4. What is the impact to long vs short haul on delays all – who is delayed the most on time.
5. Truth or fiction Airline preferences by hub status and premium vs discount
6. Severity and number of normalized delays of regional vs major hubs
7. Duration of delays by types
8. Are people more negative about non-weather-related delays

## Data Sets

1. Skyscanner
2. Flightstats
3. US Department of transportation
4. FAA
5. Twitter
6. OpenWeatherAPI

Tasks

1. Examine API’s for viability – FlightStats (Todd), Skyscanner (Peter), FAA (John), USDoT(Dennis), Twitter/OpenWeather(Scott)
2. Learn api, calls, data frames, cleaning – analysis of usability
3. Simple analysis for each selected airport look at airline performance relative actual vs scheduled. On-time average, ahead, behind, delays, cancellations
4. Determine scope of airports and airlines
5. Investigate FAA rules on flight delay compensation
6. Validate ability to get data – airline, delay/cancellation, schedule performance (duration planned v actual)
7. Validate data for flight delays by weather impacts