**Project 1 Proposal**

**Yellow highlighted text is project focus**

**Un-highlighted text is past ideas**

**Project Title:** Atlanta Airline Operations – Delays for all airlines

Airline delays and cancellations at the top 10 busiest US airports from 2012 to 2017

Travel by Air to Atlanta

**Team Members (including breakdown of tasks):**

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**Project Description/Outline:**

delays, cancellations, destinations, flight time

Audience – business community, HR

Audience – general public, UberAir

Atlanta hotel staffing preparation for the busiest travel season

Audience to the general public

Audience -- Ten busiest Airport owner/operators

Description – delays (time of year, causes, amount of time of delay)

**Research Questions to Answer:**

Most popular airport departures and destinations

Most popular airlines

Price variations throughout the year

Top 5 US Airports -- # of flights cancelled/delayed?

Top 5 domestic routes that have the most cancellations/delays?

In what season are there the most cancellations/delays?

What holiday season are there the most cancel/delay?

Statistics of time data and flight distances for cancellations/delays?

(subset question within each is to ID the most prevalent airline)

Correlations – example, length of delay with season, etc.

**Data Sets to be used:**

<https://www.bts.gov/>; <https://www.transtats.bts.gov/DataIndex.asp>

Kaggle

<https://openflights.org/data.html>

<https://developer.flightstats.com/api-docs/airports/v1/airportresponse>

<https://www.transtats.bts.gov/DatabaseInfo.asp?DB_ID=120&DB_Name=Airline%20On-Time%20Performance%20Data>

Openflights.org

Travel.aggregrateintelligence.com

<https://www.kaggle.com/mmetter/flights/home>

Orbitz

Cheaptickets

Travelocity

Priceline

Kayak

**VISUALS:**

Delays across top airlines – American, Delta, United, Southwest, Spirit

Cancellations across top airlines - American, Delta, United, Southwest, Spirit

Delayed departures across busiest airports over 5 years- ATL, LAX, CHI, DFW, DEN, JFK

Delayed arrivals across busiest airports over 5 years - ATL, LAX, CHI, DFW, DEN, JFK

Delay reasons by season across airports - ATL, LAX, CHI, DFW, DEN, JFK

# Delays vs Months

Average delay time depending on type of delay