

A decorative graphic on the left side of the slide consisting of two overlapping parallelograms. The front one is blue and the back one is a light greenish-blue. They are positioned diagonally, with the blue one partially covering the green one.

Fluctuations in Airline Fares

Sam Fish, Omer Sen, Raleigh Bruce, and Andrei Tabatchouk



2017 Airfare Dashboard

We chose to use data from Transportation.gov.

- Original Data Source: [“Consumer Airfare Report: Table 4 - City - Pair Markets With a Substantial Decrease in Average Fare”](#)
 - Ended up assessing the year 2017 because all of the geospatial coordinates were included for this year, AKA the data was a complete set.
 - Data was cleaned via Pandas and re-exported as a cleaned CSV
 - Latitude and Longitude were separated via regex

Technologies Used: sqlite, pandas, pathlib, regex, numpy, sqlalchemy, js, html, python, flask, d3

Data Cleaning Continued

PRE

P	Q
Geocode	Geocode
Austin, TX (30.264979, -97.746598)	Kansas City, MO (39.099792, -94.578559)
Albuquerque, NM (35.084248, -106.649241)	Austin, TX (30.264979, -97.746598)

POST

Latitude1	Longitude1	Latitude2	Longitude2
Search column...	Search column...	Search column...	Search column...
30.264979	-97.746598	39.099792	-94.578559
35.084248	-106.649241	30.264979	-97.746598
38.835224	-104.819798	28.538331	-81.378879
33.748547	-84.391502	30.406931	-87.217578
33.748547	-84.391502	41.765775	-72.673356
33.748547	-84.391502	36.166687	-86.779932
33.748547	-84.391502	42.358894	-71.056742
33.748547	-84.391502	44.977479	-93.264346
30.264979	-97.746598	40.442169	-79.994945

- This was a big hurdle for us in restructuring our data.
 - We were able to remove the city names and isolate our latitudinal and longitudinal coordinates.

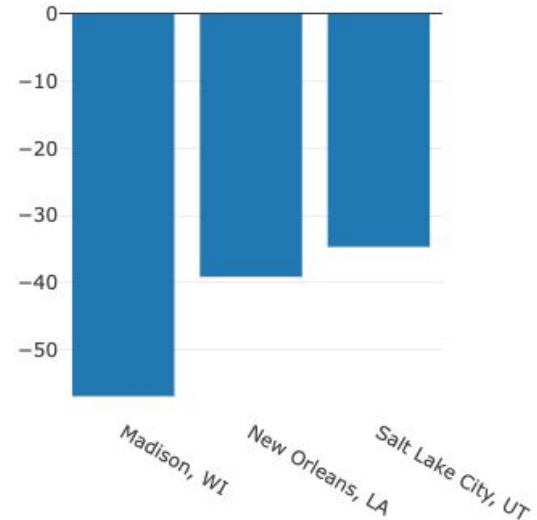
First Visual

- This visual is assessing the price change from the original departure city to the subsequent arrival city.

Departure:

Denver, CO - Q3

Price Change by Destination



Second Visual

- In this visual, we chose to look at passenger quantity changes by departure city to arrival City.
 - In this snapshot, the departure city is set to Denver, Arrival Cities displayed in graph

Passenger Change by Destination

