Fluctuations in Airline Fares

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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

POST

- 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.
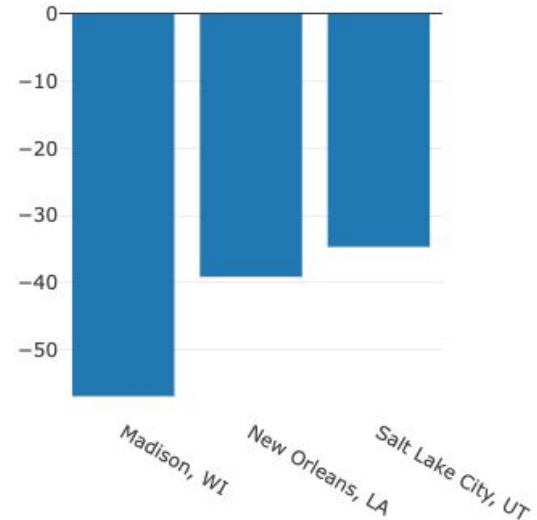
First Visual

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

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