Introduction:

Our group is: Sai, Ayrton, and Zach

For our topic we were interested in airline travel. More specifically…

1. Airline Travel

* Theme: We were interested what airlines and routes are the most highly traveled starting in the US.

1. Airline Route Vis

* Question: what are the most frequently traveled routes and destinations in the US?

Ayrton: describe coding process (data source(s), cleaning, presentation style)

2017 airline routes

* Data sources:
  + csvs from data.world
  + visualization was from bl.ocks.org
* Coding approach (thought process behind vis & data analysis): Ayrton
  + Started looking at d3 vis for routes
  + If analyze multiple airlines or groups and what to focus on
* Data munging techniques:
  + Used pandas dataframe to clean and apply aggregations to get data we wanted to plot
  + Formatting changes in d3; css

From Vis we can see highly trafficked routes:

* East Coast to Europe, specifically NYC to London and then NE to Germany and France
* West coast/LA to Japan/China
* Florida hub to Latin America
* Not a lot to Africa
* Business cities

1. 2015 Flight Information

Question: We wanted to see if there were differences between number of passengers and # of passenger miles between the largest 20 airlines (determined by largest number of passengers)

* Data sources:
  + csvs from data.world
* Coding approach (thought process behind vis & data analysis):
  + Wanted to see if there were differences in between passengers and passenger miles
  + Find efficiencies
* Data munging techniques:
  + Csvs and cleaned in pandas

From charts we see:

* American, Delta, United and SW are the largest in terms of revenue and number of passengers and number of passenger miles
* SW had the most passengers, but the least passenger miles out of those 4 suggesting that they have shorter flights than the other 3 airlines
* British Airways doesn’t carry a lot of passengers, but they have much higher passenger miles because of transcontinental flights to the US
* Frontier and Spirit: Spirit has more passenger