Stat 261, Lab 7

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library(tidyverse)
library(nycflights13)

In this lab we will work with the nycflights13 data.

- 1. Add the latitude and longitude of each airport destination to the flights table using a join function. You will find the data on latitude and longitude in the airports table.
- 2. Create a table with the year-month-day-flight-tailnum combinations that have more than 1 flight (careful about missing tailnum). Use this table to filter the flights table and then select carrier, flight, origin and dest. Which airline used the same flight number for a plane that made a trip from La Guardia to St. Louis in the morning and from Newark to Denver in the afternoon?
- 3. One of the exercises in the lecture 7 notes asked you to create a table called top_dep_delay from the flights table. top_dep_delay was comprised of the year-month-days with the 3 largest total delays, where total delay is defined as the sum of the dep_delay variable for each year-month-day. Recreate top_dep_delay for this lab exercise. For each of the three top-delay days, report the median, third quartile and maximum of the dep_delay variable in flights.