csci297b Exercise 6 dplyr

For this project, use the dplyr library and pipes.

- 1. Open project_03_yourname.
- 2. Open a new R markdown file in the project called exercise07.Rmd
- 3. Load the nycflights13 dataset
- 4. Compare dep_time, sched_dep_time, and dep_delay. How would you expect those three numbers to be related?
- 5. Brainstorm as many ways as possible to select dep_time, dep_delay, arr_time, and arr_delay from flights.
- 6. What happens if you specify the name of the same variable multiple times in a select() call?
- 7. What does the any_of() function do? Why might it be helpful in conjunction with this vector?

```
variables <- c("year", "month", "day", "dep_delay", "arr_delay")</pre>
```

8. Does the result of running the following code surprise you? How do the **select** helpers deal with upper and lower case by default? How can you change that default?

```
flights |> select(contains("TIME"))
```

- 9. Rename air_time to air_time_min to indicate units of measurement and move it to the beginning of the data frame.
- 10. Why doesn't the following work, and what does the error mean?

```
flights |>
  select(tailnum) |>
  arrange(arr_delay)

#> Error in 'arrange()':

#> i In argument: '..1 = arr_delay'.

#> Caused by error:

#> ! object 'arr_delay' not found
```