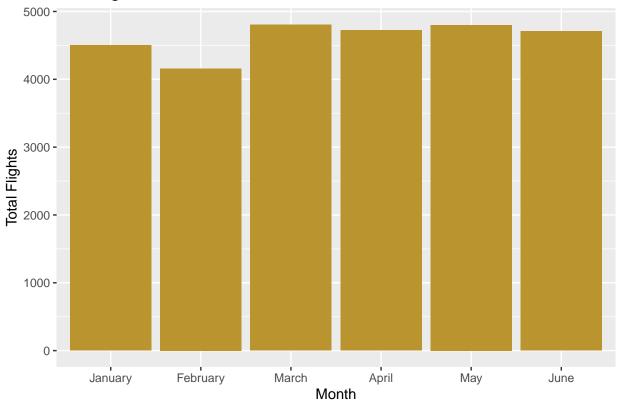
R Notebook

```
library(ggthemes)
library(tidyverse)
## -- Attaching packages -----
                                               ----- tidyverse 1.3.2 --
## v ggplot2 3.3.6
                      v purrr
                                0.3.4
## v tibble 3.1.8
                      v dplyr
                                1.0.10
## v tidyr
            1.2.1
                      v stringr 1.4.1
## v readr
            2.1.2
                      v forcats 0.5.2
## -- Conflicts ----
                                             ----- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()
                   masks stats::lag()
library(lubridate)
##
## Attaching package: 'lubridate'
## The following objects are masked from 'package:base':
##
##
      date, intersect, setdiff, union
library(nycflights13)
library(dplyr)
library(ggplot2)
data("flights")
glimpse(flights)
## Rows: 336,776
## Columns: 19
                  <int> 2013, 2013, 2013, 2013, 2013, 2013, 2013, 2013, 2013, 2013
## $ year
## $ month
                  ## $ day
                  ## $ dep_time
                  <int> 517, 533, 542, 544, 554, 554, 555, 557, 557, 558, 558, ~
## $ sched_dep_time <int> 515, 529, 540, 545, 600, 558, 600, 600, 600, 600, 600, ~
## $ dep_delay
                   <dbl> 2, 4, 2, -1, -6, -4, -5, -3, -3, -2, -2, -2, -2, -2, -1~
## $ arr_time
                   <int> 830, 850, 923, 1004, 812, 740, 913, 709, 838, 753, 849,~
## $ sched_arr_time <int> 819, 830, 850, 1022, 837, 728, 854, 723, 846, 745, 851,~
## $ arr delay
                  <dbl> 11, 20, 33, -18, -25, 12, 19, -14, -8, 8, -2, -3, 7, -1~
## $ carrier
                  <chr> "UA", "UA", "AA", "B6", "DL", "UA", "B6", "EV", "B6", "~
## $ flight
                  <int> 1545, 1714, 1141, 725, 461, 1696, 507, 5708, 79, 301, 4~
                  <chr> "N14228", "N24211", "N619AA", "N804JB", "N668DN", "N394~
## $ tailnum
                  <chr> "EWR", "LGA", "JFK", "JFK", "LGA", "EWR", "EWR", "LGA",~
## $ origin
                  <chr> "IAH", "IAH", "MIA", "BQN", "ATL", "ORD", "FLL", "IAD",~
## $ dest
                  <dbl> 227, 227, 160, 183, 116, 150, 158, 53, 140, 138, 149, 1~
## $ air time
## $ distance
                  <dbl> 1400, 1416, 1089, 1576, 762, 719, 1065, 229, 944, 733, ~
## $ hour
                  <dbl> 5, 5, 5, 5, 6, 5, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6
## $ minute
                  <dbl> 15, 29, 40, 45, 0, 58, 0, 0, 0, 0, 0, 0, 0, 0, 59, 0~
## $ time_hour
                  <dttm> 2013-01-01 05:00:00, 2013-01-01 05:00:00, 2013-01-01 0~
```

Warning in month == c(1:6): longer object length is not a multiple of shorter ## object length

Total flights to NYC in 2013, Jan - Jun

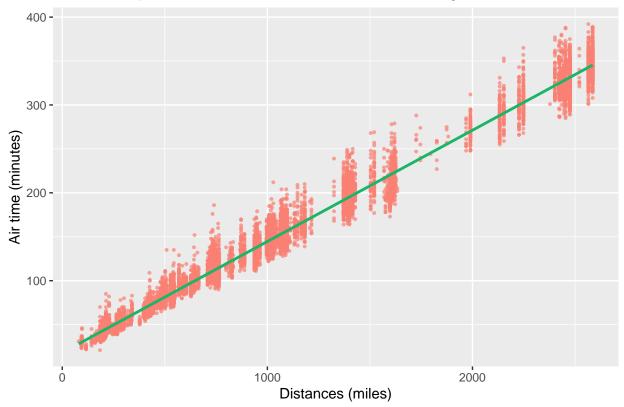


Total flights in March to June were slightly different, but in February was drop from January.

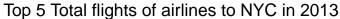
```
y = "Air time (minutes)")
```

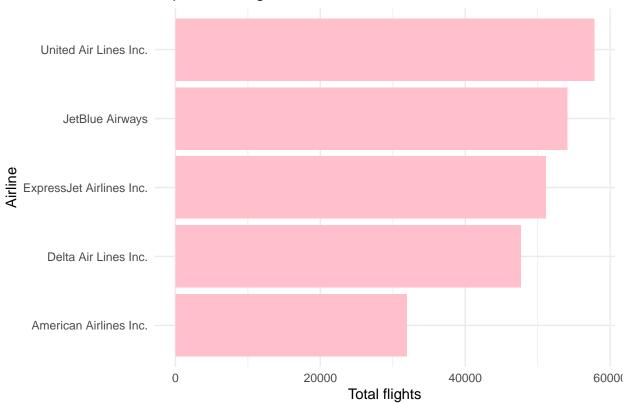
`geom_smooth()` using formula 'y ~ x'

Relationship between air time and distance of the flights in 2013



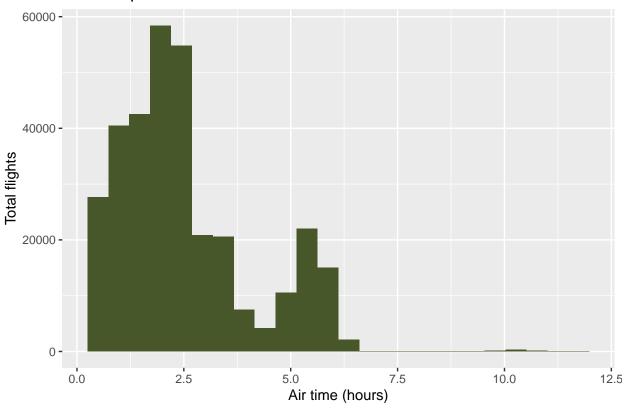
At the trend for the graph, it can be seen that air time were increased when distances were increased.





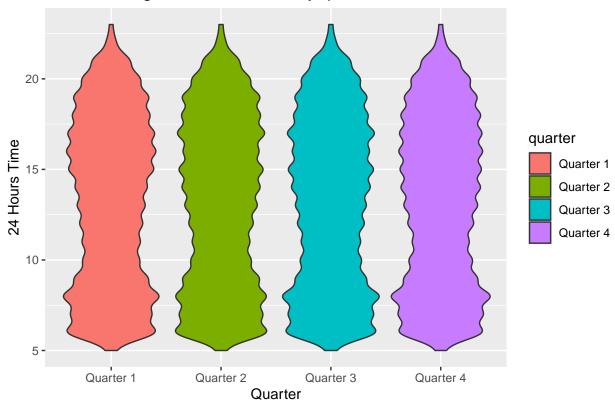
United Air Lines Inc had the most flights to NYC in 2013.

Airtime spend to NYC



The most airlines had air time to NYC less than 2.5 hours.

Hours that flights arrived to NYC by quarter



The flights's time arrived to NYC in each quarter were slightly different.