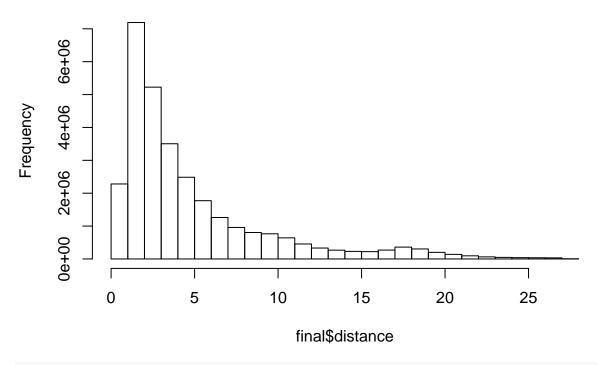
uber analysis

 $Krishnan\ Raman$ 10/6/2020

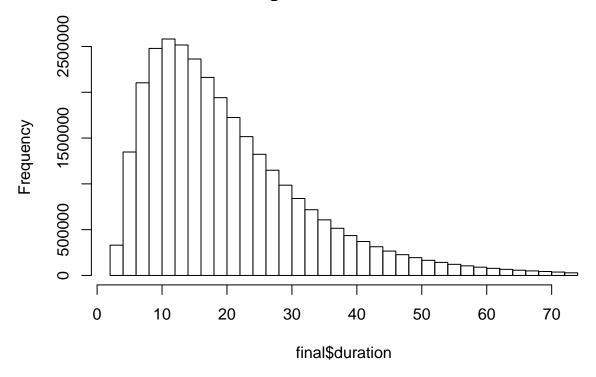
```
knitr::opts_chunk$set(echo = TRUE)
rm(list=ls())
library("dplyr")
##
## Attaching package: 'dplyr'
## The following objects are masked from 'package:stats':
##
##
       filter, lag
## The following objects are masked from 'package:base':
##
##
       intersect, setdiff, setequal, union
# CHANGE THIS TO LOCAL DRIVE WHERE uber_nyc_data.csv is located
# set nrows to 40 million
setwd("~/Desktop/695/uber-tlc-foil-response/uber-trip-data/")
df<-read.csv("uber_nyc_data.csv", nrows=1000*1000*40)</pre>
# convert factor vars to formatted numbers
df$distance = as.double(as.character(df$trip_distance))
## Warning: NAs introduced by coercion
df$duration = as.double(as.difftime(as.character(df$trip_duration), format = "%H:%M:%S", units = "mins"
# find 1% & 99% quantiles, eliminate anything beyond
# this helps with cancelled trips, overly long trips & other weird outlier cases
durq = quantile(df$duration,c(0.01, 0.99), names=F, na.rm=T)
disq = quantile(df$distance,c(0.01, 0.99), names=F, na.rm=T)
df2 = df[df$duration > durq[1] & df$duration < durq[2] & df$distance > disq[1] & df$distance < disq[2],
df2 = select(df2,2:4, 7:8)
# remove NAs & prev dataframes
final = df2[complete.cases(df2), ]
rm(df,df2)
# now we are ready! lets look at distance distribution, duration distribution
hist(final$distance)
```

Histogram of final\$distance



hist(final\$duration)

Histogram of final\$duration



get summary stats on distance & duration summary(final)

```
pickup_datetime
##
     origin_taz
                    destination_taz
                        : 4691257
                                     2015-07-09 22:00:00:
##
       : 5439515
                   2A
                                                          12237
                          : 2161787
                                     2015-06-27 22:00:00:
        : 2063567
                   15
                                                          12113
                          : 1856022
## 4C
         : 2006456 4C
                                     2015-06-27 23:00:00:
                                                          11794
## 1
         : 1956701 1
                          : 1723933
                                     2015-06-27 21:00:00:
                                                          11453
                                     2015-05-16 22:00:00: 11159
##
  6B
        : 1736530 6B
                         : 1644425
##
  5C
         : 1626098 11
                         : 1418915
                                     2015-06-28 00:00:00: 11116
   (Other):15164393
                   (Other):16496921
                                     (Other)
                                                      :29923388
##
      distance
                     duration
##
## Min. : 0.400 Min. : 2.867
## 1st Qu.: 1.720
                  1st Qu.:10.967
## Median : 3.080
                  Median :17.167
## Mean : 4.836
                  Mean :20.152
   3rd Qu.: 6.030
                  3rd Qu.:26.183
## Max. :27.170
                  Max. :73.750
##
```