

smpe_Project

Hello R I don't have a girlfriend so you are my girlfriend

we will read our data to a data frame

```
library(lubridate)

##
## Attaching package: 'lubridate'

## The following object is masked from 'package:base':
##      date

library(dplyr)

##
## Attaching package: 'dplyr'

## The following objects are masked from 'package:lubridate':
##      intersect, setdiff, union

## The following objects are masked from 'package:stats':
##      filter, lag

## The following objects are masked from 'package:base':
##      intersect, setdiff, setequal, union

df = read.table('liglab2.log', sep=' ', na.strings = "", header=F, fill = TRUE )
df = df %>% select(V1, V2, V9)
```

Clean my dataframe droping all rows with at least one NA cell

```
library(tidyr)
line_NA = apply(df, 1, function(x) any(is.na(x)))
#df[line_NA, ]
df = df %>% drop_na()
```

Changing column names

```
colnames(df)=c('date' , 'size' , 'time' )
```

Convert time column to float

```
convertTime = function(time)
  gsub("[^0-9.]", "", time)

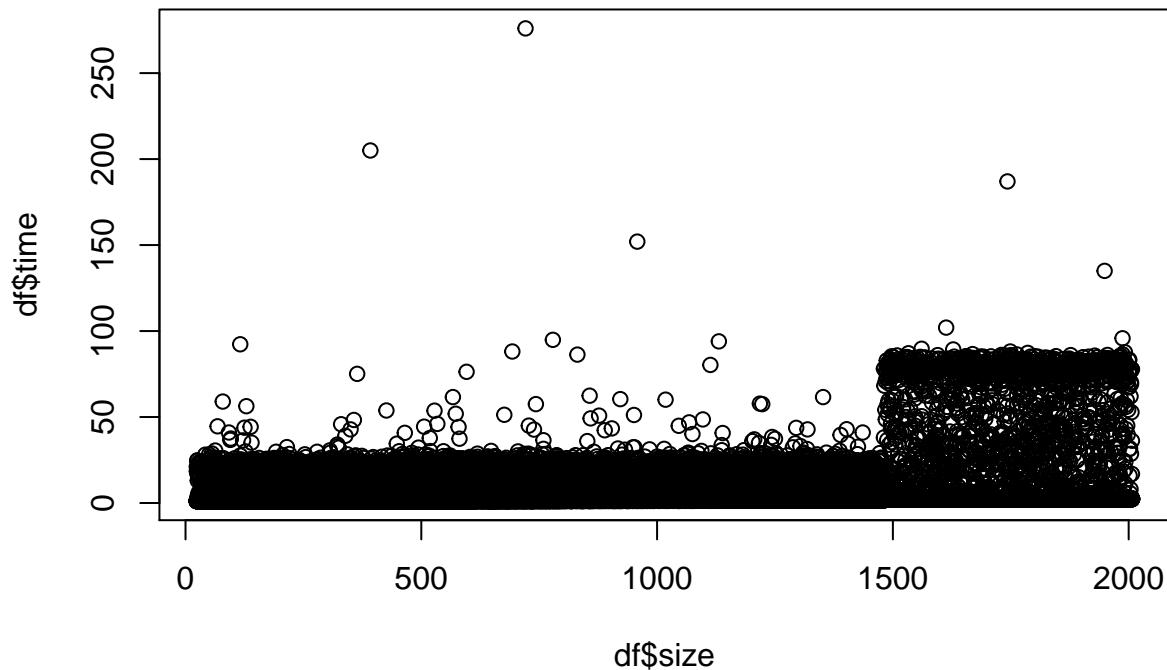
df$time = as.numeric(sapply(df$time , convertTime))

convertdate = function(date)
  gsub("[^0-9.]", "", date)

df$date = as.numeric(sapply(df$date , convertdate))
```

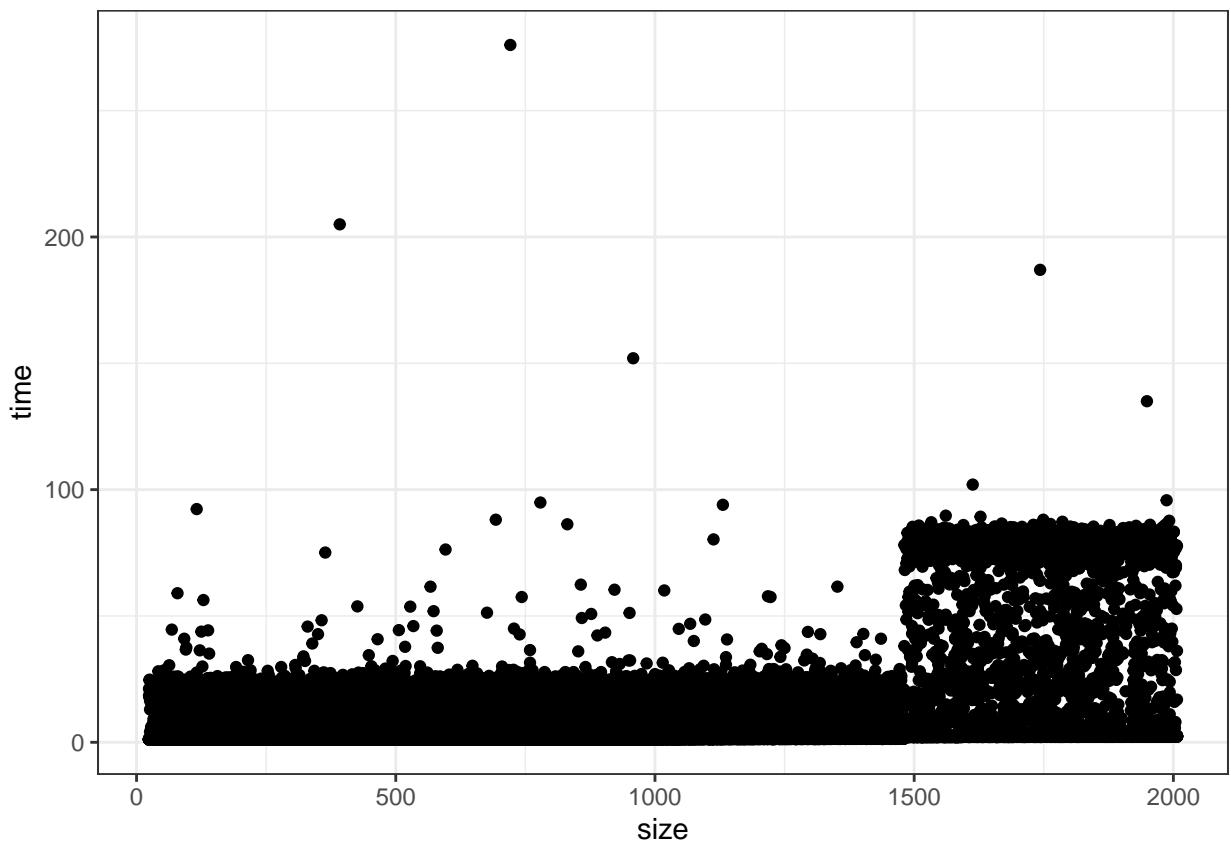
this is the time in terms of the size of a msg

```
plot(df$size , df$time)
```

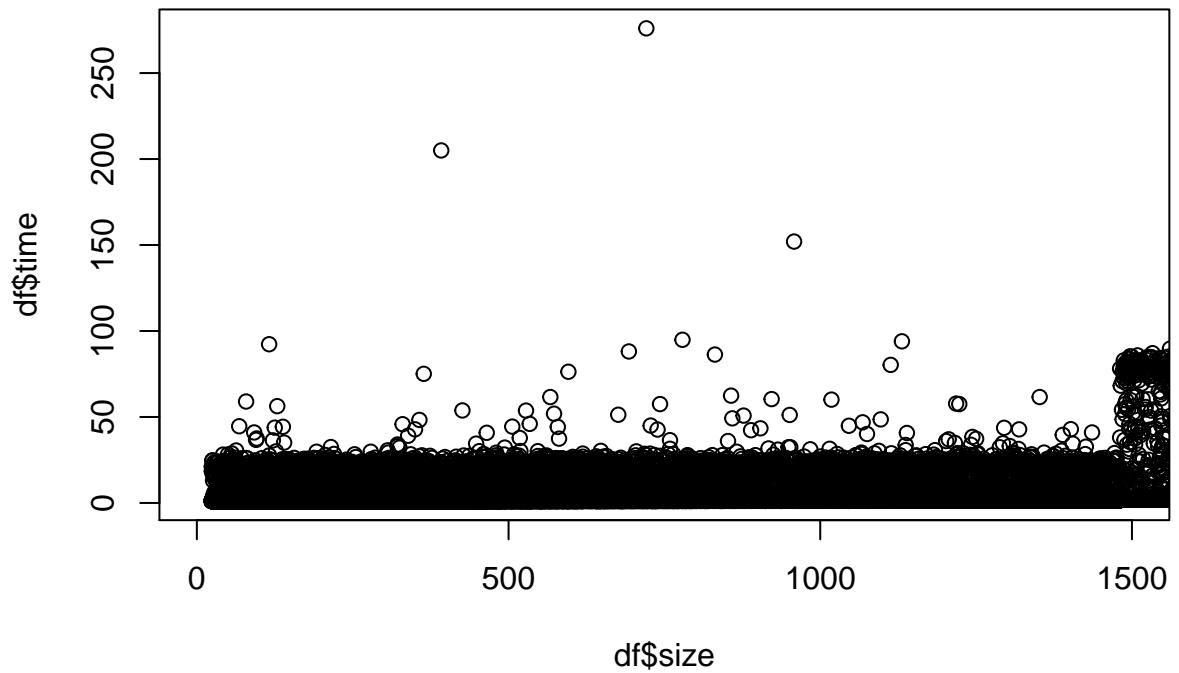


```
library(ggplot2)

ggplot(df, aes(x=size, y=time)) +
  geom_point() +
  theme_bw()
```



```
plot(df$size , df$time , xlim=c(0,1500))
```



```
plot(df$size , df$time , xlim=c(1000,1600))
```

