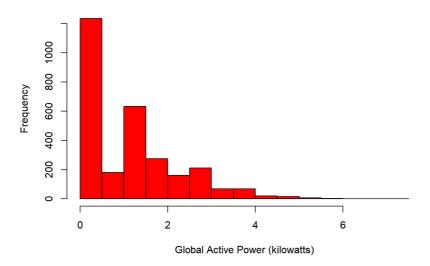
assignment for exp_data

Amena Urooj

31 December 2018

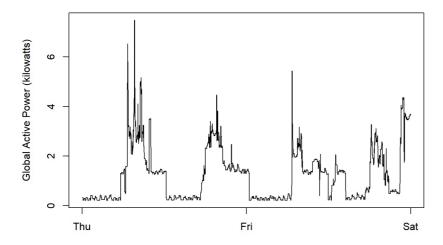
```
\tt setwd("C:/Users/amena/Documents/old\ laptop/g/data\ science/exploratory\ data\ analysis\ data\ set/exdata\_data\_househ
\verb|old_power_consumption/exdata_data_household_power_consumption"||
t <- read.table("household_power_consumption.txt", header=TRUE, sep=";", na.strings = "?", colClasses = c('char
acter','character','numeric','numeric','numeric','numeric','numeric','numeric','numeric'))
## Format date to Type Date
\texttt{t$Date} \; \leftarrow \; \texttt{as.Date(t$Date, "$d/$m/$Y")}
## Filter data set from Feb. 1, 2007 to Feb. 2, 2007
t <- subset(t,Date >= as.Date("2007-2-1") & Date <= as.Date("2007-2-2"))
## Remove incomplete observation
t <- t[complete.cases(t),]
## Combine Date and Time column
dateTime <- paste(t$Date, t$Time)</pre>
## Name the vector
dateTime <- setNames(dateTime, "DateTime")</pre>
## Remove Date and Time column
t <- t[ ,!(names(t) %in% c("Date","Time"))]
## Add DateTime column
t <- cbind(dateTime, t)
## Format dateTime Column
t$dateTime <- as.POSIXct(dateTime)
#PLOT 1
  ## Create the histogram
  hist(t$Global_active_power, main="Global Active Power", xlab = "Global Active Power (kilowatts)", col="red")
```

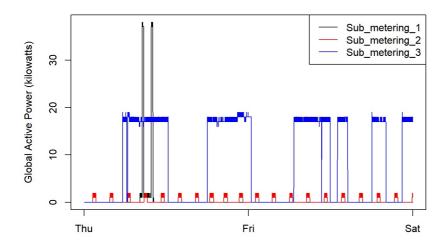
Global Active Power



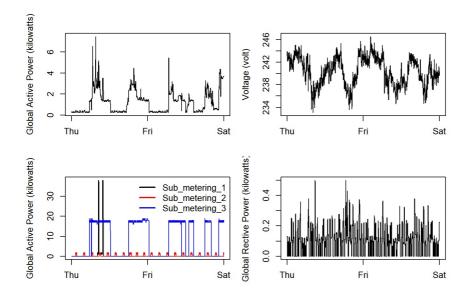
```
## Save file and close device
#dev.copy(png,"plot1.png", width=480, height=480)
#dev.off()

#PLOT 2
## Create Plot 2
plot(t$Global_active_power~t$dateTime, type="1", ylab="Global Active Power (kilowatts)", xlab="")
```





```
## Saving to file
 #dev.copy(png, file="plot3.png", height=480, width=480)
 #dev.off()
#PLOT 4
 ## Create Plot 4
 \texttt{par(mfrow=c(2,2), mar=c(4,4,2,1), oma=c(0,0,2,0))}
 with(t, {
   plot(Global_active_power~dateTime, type="1",
        ylab="Global Active Power (kilowatts)", xlab="")
   plot(Voltage~dateTime, type="1",
        ylab="Voltage (volt)", xlab="")
   plot(Sub_metering_1~dateTime, type="1",
        ylab="Global Active Power (kilowatts)", xlab="")
   lines(Sub_metering_2~dateTime,col='Red')
   lines(Sub_metering_3~dateTime,col='Blue')
   plot(Global_reactive_power~dateTime, type="1",
        ylab="Global Rective Power (kilowatts)",xlab="")
 })
```



Saving to file
#dev.copy(png, file="plot4.png", height=480, width=480)
#dev.off()