Plot 1

temp <- tempfile()

download.file("https://d396qusza40orc.cloudfront.net/exdata%2Fdata%2Fhousehold\_power\_consumption.zip",temp)

power <- read.table(unz(temp,"household\_power\_consumption.txt"),

sep=";",

header = T,

na="?",

colClasses = c("character",

'character',

'numeric',

'numeric',

'numeric',

'numeric',

'numeric',

'numeric',

'numeric'))

unlink(temp)

power <- power[which(power$Date == '2/2/2007' | power$Date=='1/2/2007'),]

power$POSIX <-as.POSIXlt.character(paste(power$Date,power$Time),format = "%d/%m/%Y %H:%M:%S")

#plot.1

png(filename="plot1.png",width=480, height=480)

hist(power$Global\_active\_power, col = 'red', main = 'Global Active Power', xlab = 'Global Active Power (kilowatts)')

dev.off()

Plot.2

|  |
| --- |
| temp <- tempfile() |
|  | download.file("https://d396qusza40orc.cloudfront.net/exdata%2Fdata%2Fhousehold\_power\_consumption.zip",temp) |
|  | power <- read.table(unz(temp,"household\_power\_consumption.txt"), |
|  | sep=";", |
|  | header = T, |
|  | na="?", |
|  | colClasses = c("character", |
|  | 'character', |
|  | 'numeric', |
|  | 'numeric', |
|  | 'numeric', |
|  | 'numeric', |
|  | 'numeric', |
|  | 'numeric', |
|  | 'numeric')) |
|  |  |
|  | unlink(temp) |
|  | power <- power[which(power$Date == '2/2/2007' | power$Date=='1/2/2007'),] |
|  |  |
|  | power$POSIX <-as.POSIXlt.character(paste(power$Date,power$Time),format = "%d/%m/%Y %H:%M:%S") |
|  |  |
|  | #plot2 |
|  | png(filename="plot2.png",width=480, height=480) |
|  | plot(x=power$POSIX ,y=power$Global\_active\_power, type = 'l', xlab='',ylab = 'Global Active Power (kilowatts)') |
|  | dev.off()  Plot.3   |  | | --- | | temp <- tempfile() | |  | download.file("https://d396qusza40orc.cloudfront.net/exdata%2Fdata%2Fhousehold\_power\_consumption.zip",temp) | |  | power <- read.table(unz(temp,"household\_power\_consumption.txt"), | |  | sep=";", | |  | header = T, | |  | na="?", | |  | colClasses = c("character", | |  | 'character', | |  | 'numeric', | |  | 'numeric', | |  | 'numeric', | |  | 'numeric', | |  | 'numeric', | |  | 'numeric', | |  | 'numeric')) | |  |  | |  | unlink(temp) | |  | power <- power[which(power$Date == '2/2/2007' | power$Date=='1/2/2007'),] | |  |  | |  | power$POSIX <-as.POSIXlt.character(paste(power$Date,power$Time),format = "%d/%m/%Y %H:%M:%S") | |  |  | |  |  | |  | #plot3 | |  | png(filename="plot3.png",width=480, height=480) | |  | plot(x=power$POSIX,y=power$Sub\_metering\_1, type='l', col = 'black', ylab = 'Energy sub metering', xlab = '') | |  | lines(x=power$POSIX,y=power$Sub\_metering\_2, col='red') | |  | lines(x=power$POSIX,y=power$Sub\_metering\_3, col='blue') | |  | legend('topright', legend = c('Sub\_metering\_1',"Sub\_metering\_2","Sub\_metering\_3"), col = c('black','red','blue'), lty = 1) | |  | dev.off() |   Plot.4   |  | | --- | | temp <- tempfile() | |  | download.file("https://d396qusza40orc.cloudfront.net/exdata%2Fdata%2Fhousehold\_power\_consumption.zip",temp) | |  | power <- read.table(unz(temp,"household\_power\_consumption.txt"), | |  | sep=";", | |  | header = T, | |  | na="?", | |  | colClasses = c("character", | |  | 'character', | |  | 'numeric', | |  | 'numeric', | |  | 'numeric', | |  | 'numeric', | |  | 'numeric', | |  | 'numeric', | |  | 'numeric')) | |  |  | |  | unlink(temp) | |  | power <- power[which(power$Date == '2/2/2007' | power$Date=='1/2/2007'),] | |  |  | |  | power$POSIX <-as.POSIXlt.character(paste(power$Date,power$Time),format = "%d/%m/%Y %H:%M:%S") | |  |  | |  |  | |  | #plot4 | |  | png(filename="plot4.png",width=480, height=480) | |  | par(mfrow=c(2,2)) | |  | plot(x=power$POSIX ,y=power$Global\_active\_power, type = 'l', xlab='',ylab = 'Global Active Power') | |  | plot(x=power$POSIX ,y=power$Voltage, type = 'l', xlab='datetime',ylab = 'Voltage') | |  | plot(x=power$POSIX,y=power$Sub\_metering\_1, type='l', col = 'black', ylab = 'Energy sub metering', xlab = '') | |  | lines(x=power$POSIX,y=power$Sub\_metering\_2, col='red') | |  | lines(x=power$POSIX,y=power$Sub\_metering\_3, col='blue') | |  | legend('topright', legend = c('Sub\_metering\_1',"Sub\_metering\_2","Sub\_metering\_3"), col = c('black','red','blue'), lty = 1, bty = "n") | |  | plot(x=power$POSIX ,y=power$Global\_reactive\_power, type = 'l', xlab='datetime',ylab = 'Global\_reactive\_power') | |  | dev.off() | |