plot3.R

Shawn

October 1, 2016

Download the Data

```
## Get the working directory
wd <- getwd()
## Define the destfile
DestFile <- paste(wd, "household_power_consumption.zip", sep ="")
## Download the file and process it
download.file("https://d396qusza40orc.cloudfront.net
              /exdata%2Fdata%2Fhousehold_power_consumption.zip", DestFile)
MyData <- unzip(DestFile)
unlink(DestFile)
```

Make the plot

```
## Read Data
power <- read.table(file=MyData, sep = ";", skip = 1)
names(power) <- c("Date", "Time", "Global_active_power", "Global_reactive_power",
                  "Voltage", "Global_intensity", "Sub_metering_1",
                  "Sub_metering_2", "Sub_metering_3")
## Get the data from 1/2/2007 to 2/2/2007
epower <- power[power$Date=="1/2/2007" | power$Date=="2/2/2007", ]
## Format the date
DateTime <- strptime(paste(epower$Date, epower$Time),
                     format = "%d/%m/%Y %H:%M:%S")
submetering1 <- as.numeric(as.factor(epower$Sub_metering_1))
submetering2 <- as.numeric(as.factor(epower$Sub_metering_2))
submetering3 <- as.numeric(as.factor(epower$Sub_metering_3))
## Plot
plot(DateTime, submetering1, type ="l", xlab = "",
     ylab = "Energy sub metering")
lines(DateTime, submetering2, type = "l", col = "red")
lines(DateTime, submetering3, type = "l", col = "blue")
legend(x = "topright", legend = c("Sub_metering_1", "Sub_metering_2", "Sub_metering_3"),
       col = c("black", "red", "blue"), lty = 1)
## Save to png
dev.copy(png, "plot3.png", width = 480, height = 480)
## Close the png device
dev.off()
```