The fitness Movement

R CODE

#Exploratory
head(activity)
str(activity)
hist(activity\$steps)

#Histogram of # of steps
hist(activity\$steps)

OUTPUT

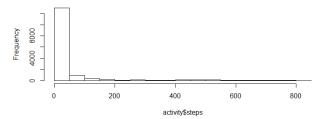
#Exploratory

3 variables in the dataset consisting of num, Factor and int variables

#Histogram

Vast majority of 5 minute interval only contain 50 steps

Histogram of activity\$steps



The fitness Movement

R CODE

#Mean and median number of steps taken each day mean.default(activity\$steps, trim = 0, na.rm = TRUE, activity) median.default(activity\$steps, trim = 1, na.rm = TRUE, activity)

#The 5-minute interval that, on average, contains the maximum number of steps plot(steps ~ interval, activity)

#Code to describe and show a strategy for imputing missing data
#Histogram of the total number of steps taken each day after missing values are imputed

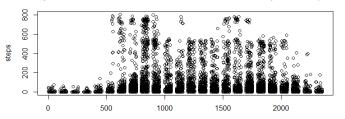
activity\$steps[activity\$steps== "NA"] <- 37.3826 plot(steps ~ date, activity)

OUTPUT

#Mean and Median Mean = 37.3826 Median = 0

#Five minute interval

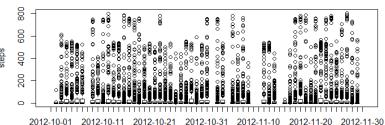
It is approximately the 900th interval based on the density of the plot



#Plot to depict total number of steps each day

2012-10-11 appears to be the most dense and containing the highest amount of

steps



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