## Reproducible Research: Peer Assessment 1

## Loading and preprocessing the data

Unzip "activity.zip" file—assumed to be on the working directory read file, gather complete cases and convert dates from strings into date objects:

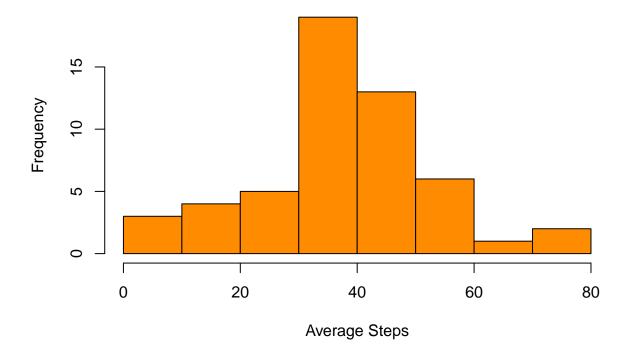
```
file <- unzip("activity.zip")
    steps <- read.csv(file)
    steps <- steps[complete.cases(steps),]
    steps$date<-as.Date(steps$date)</pre>
```

## What is mean total number of steps taken per day?

generate histogram of steps and calculate mean Iand median steps per day

```
daily.steps <-aggregate(steps~date,steps,mean)[,2]
hist(daily.steps, main = "Average Steps per Day", xlab = "Average Steps", col="darkorange")</pre>
```

## **Average Steps per Day**



```
mean(daily.steps)
```

## [1] 37.38

```
median(daily.steps)
```

## [1] 37.38

What is the average daily activity pattern?

Imputing missing values

Are there differences in activity patterns between weekdays and weekends?