Reproducible Research: Peer Assessment 1

Loading and preprocessing the data

```
library(ggplot2)
library(scales)
library(Hmisc)

## Reading the activity file from a working directory.

setwd("~/Documents/Coursera/Data Science/05 - Reproducible Research/Project 1")
activity <- read.table("activity.csv", header = TRUE, sep = ",")</pre>
```

What is mean total number of steps taken per day?

What is the average daily activity pattern?

```
## Calculating the average number of steps taken.
StepsInterval <- aggregate(steps ~ interval, activity, mean, na.rm = TRUE)
## Plotting 5-minutes interval, considering the average across all days.
plot(StepsInterval$interval, StepsInterval$steps,
    type = "1", xlab = "5-minute Interval", ylab = "Average Steps",
    main = "Average Steps per Interval")</pre>
```

Imputing missing values

Are there differences in activity patterns between weekdays and weekends?