courseraRR.

R Markdown

This is an R Markdown document. Markdown is a simple formatting syntax for authoring HTML, PDF, and MS Word documents. For more details on using R Markdown see http://rmarkdown.rstudio.com.

When you click the **Knit** button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this:

```
install.packages('ggplot2')

## Installing package into 'C:/Users/jmclaughlin/Documents/R/win-library/3.3'

## (as 'lib' is unspecified)

## package 'ggplot2' successfully unpacked and MD5 sums checked

##

## The downloaded binary packages are in

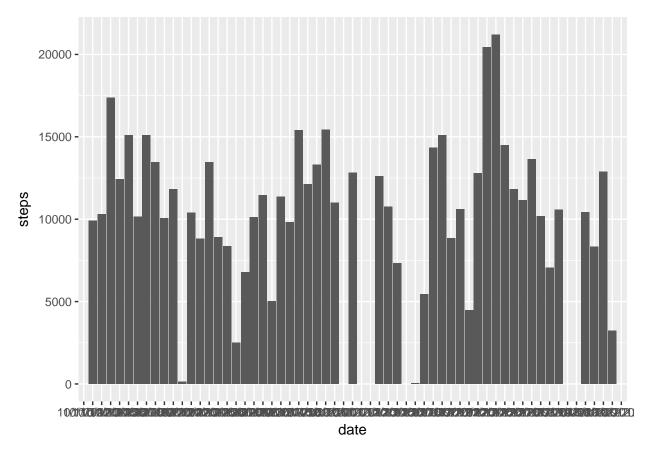
## C:\Users\jmclaughlin\AppData\Local\Temp\2\RtmpWGq2Pm\downloaded_packages

library('ggplot2')

activity <- read.csv("activity.csv", sep = ",", header = TRUE)

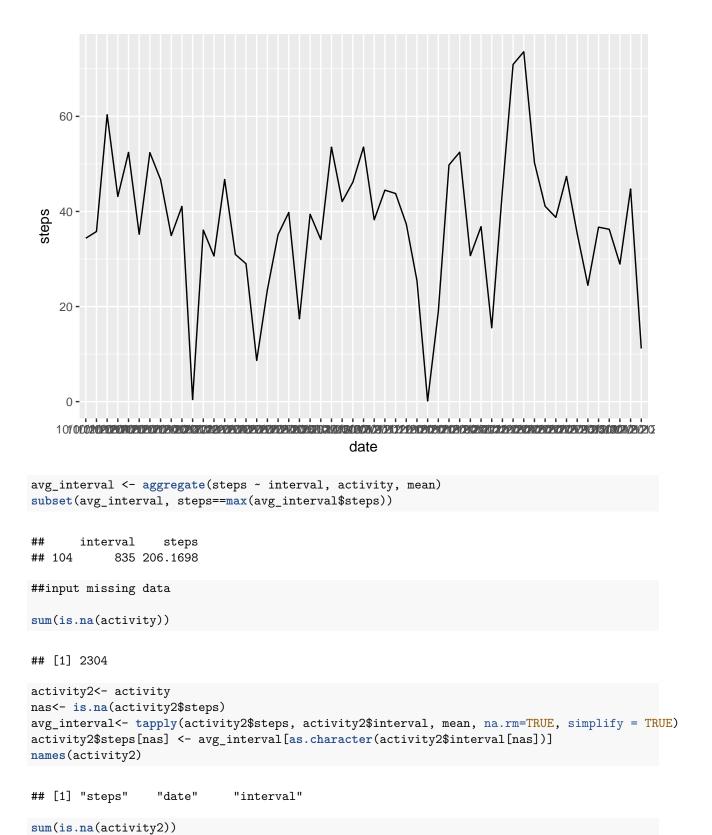
ggplot(data = activity, aes(date, steps)) + stat_summary(fun.y = sum, geom = "bar")

## Warning: Removed 2304 rows containing non-finite values (stat summary).</pre>
```



```
meandays <- aggregate(steps ~ date, activity,mean)
mediandays <- aggregate(steps ~ date, activity,median)

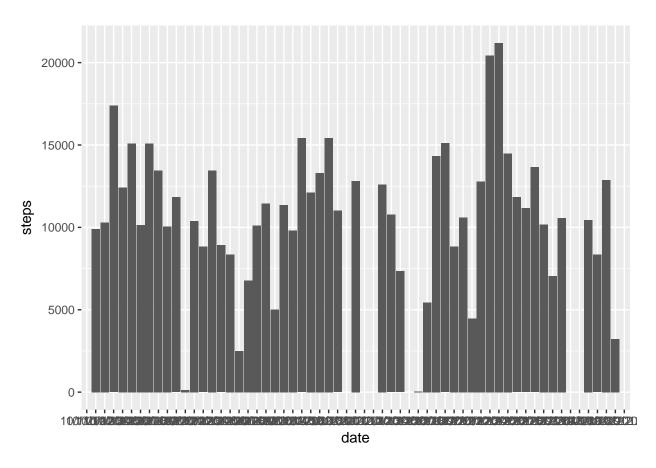
ggplot(data = meandays, aes(date, steps, group = 1)) + stat_summary(fun.y = sum, geom = "line")</pre>
```



[1] 0

```
ggplot(data = activity, aes(date, steps)) + stat_summary(fun.y = sum, geom = "bar")
```

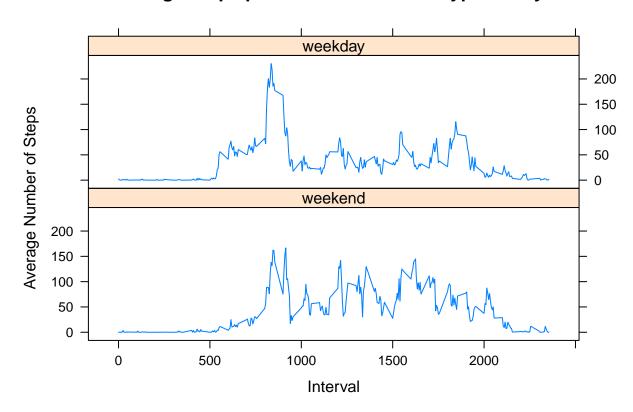
Warning: Removed 2304 rows containing non-finite values (stat_summary).



```
## steps date interval wDay
## 1 1.7169811 2012-10-01 0 weekday
## 2 0.3396226 2012-10-01 5 weekday
## 3 0.1320755 2012-10-01 10 weekday
## 4 0.1509434 2012-10-01 15 weekday
## 5 0.0754717 2012-10-01 20 weekday
## 6 2.0943396 2012-10-01 25 weekday
```

```
library(lattice)
```

Average Steps per Interval Based on Type of Day



Including Plots

You can also embed plots, for example:

Note that the echo = FALSE parameter was added to the code chunk to prevent printing of the R code that generated the plot.