

Coursera R Programming

Serge Ballif

May 8, 2016

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:

```
summary(cars)
```

```
##      speed      dist
##  Min.   : 4.0    Min.   :  2.00
##  1st Qu.:12.0    1st Qu.: 26.00
##  Median :15.0    Median : 36.00
##  Mean   :15.4    Mean   : 42.98
##  3rd Qu.:19.0    3rd Qu.: 56.00
##  Max.   :25.0    Max.   :120.00
```

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.

Import Data

One can import data and print the first row.

```
D <- read.csv("hw1_data.csv")
D[1,]
```

```
##   Ozone Solar.R Wind Temp Month Day
## 1    41    190  7.4   67     5    1
```

Similarly one can print the first column as a vector.

```
D[,1]
```

```
##   [1] 41 36 12 18 NA 28 23 19  8 NA  7 16 11 14 18 14 34
##  [18]  6 30 11  1 11  4 32 NA NA NA 23 45 115 37 NA NA NA
##  [35] NA NA NA 29 NA 71 39 NA NA 23 NA NA 21 37 20 12 13
##  [52] NA NA NA NA NA NA NA NA NA NA 135 49 32 NA 64 40 77
##  [69] 97 97 85 NA 10 27 NA  7 48 35 61 79 63 16 NA NA 80
##  [86] 108 20 52 82 50 64 59 39  9 16 78 35 66 122 89 110 NA
## [103] NA 44 28 65 NA 22 59 23 31 44 21  9 NA 45 168 73 NA
## [120] 76 118 84 85 96 78 73 91 47 32 20 23 21 24 44 21 28
## [137]  9 13 46 18 13 24 16 13 23 36  7 14 30 NA 14 18 20
```

Once can also get rid of rows where 1st column entry is NA:

```
D[complete.cases(D[,2:5]),]
```

or get rid of rows where some entry is NA.

```
D[complete.cases(D),]
```