

WORKSHEET4

Naomi Ruth Salaber

2022-11-23

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:

```
shoe_size1 <- c(6.5, 9.0, 8.5, 8.5, 10.5, 7.0, 9.5,
               9.0, 13.0, 7.5, 10.5, 8.5, 12.0, 10.5)
height1 <- c(66.0, 68.0, 64.5, 65.0, 70.0, 64.0, 70.0, 71.0,
            72.0, 64.0, 74.5, 67.0, 71.0, 71.0)
gender1 <- c('f', 'f', 'f', 'f', 'm', 'f', 'f', 'f', 'm',
            'f', 'm', 'f', 'm', 'm')
shoe_size2 <- c(13.0, 11.5, 8.5, 5.0, 10.0, 6.5, 7.5,
               8.5, 10.5, 8.5, 10.5, 11.0, 9.0, 13.0)
height2 <- c(77.0, 72.0, 59.0, 62.0, 72.0, 66.0, 64.0,
            67.0, 73.0, 69.0, 72.0, 70.0, 69.0, 70.0)
gender2 <- c('m', 'm', 'f', 'f', 'm', 'f', 'f', 'm', 'm',
            'f', 'm', 'm', 'm', 'm')

s_data <- data.frame(shoe_size1, height1, gender1, shoe_size2,
                    height2, gender2)
s_data
```

##	shoe_size1	height1	gender1	shoe_size2	height2	gender2
## 1	6.5	66.0	f	13.0	77	m
## 2	9.0	68.0	f	11.5	72	m
## 3	8.5	64.5	f	8.5	59	f
## 4	8.5	65.0	f	5.0	62	f
## 5	10.5	70.0	m	10.0	72	m
## 6	7.0	64.0	f	6.5	66	f
## 7	9.5	70.0	f	7.5	64	f
## 8	9.0	71.0	f	8.5	67	m
## 9	13.0	72.0	m	10.5	73	m
## 10	7.5	64.0	f	8.5	69	f
## 11	10.5	74.5	m	10.5	72	m
## 12	8.5	67.0	f	11.0	70	m
## 13	12.0	71.0	m	9.0	69	m
## 14	10.5	71.0	m	13.0	70	m

```
size <- cbind(shoe_size1,shoe_size2)
size
```

```
##      shoe_size1 shoe_size2
## [1,]         6.5         13.0
## [2,]         9.0         11.5
## [3,]         8.5          8.5
## [4,]         8.5          5.0
## [5,]        10.5         10.0
## [6,]         7.0          6.5
## [7,]         9.5          7.5
## [8,]         9.0          8.5
## [9,]        13.0         10.5
## [10,]         7.5          8.5
## [11,]        10.5         10.5
## [12,]         8.5         11.0
## [13,]        12.0          9.0
## [14,]        10.5         13.0
```

```
mean(size)
```

```
## [1] 9.410714
```

```
height <- cbind(height1,height2)
height
```

```
##      height1 height2
## [1,]      66.0      77
## [2,]      68.0      72
## [3,]      64.5      59
## [4,]      65.0      62
## [5,]      70.0      72
## [6,]      64.0      66
## [7,]      70.0      64
## [8,]      71.0      67
## [9,]      72.0      73
## [10,]      64.0      69
## [11,]      74.5      72
## [12,]      67.0      70
## [13,]      71.0      69
## [14,]      71.0      70
```

```
mean(height)
```

```
## [1] 68.57143
```

```
month <- c("March","April","January","November","January",
           "September","October","September","November","August",
           "January","November","November","February","May","August",
           "July","December","August","August","September","November","February","April")
factor_month <- factor(month)
factor_month
```

```
## [1] March      April      January   November  January   September October
## [8] September November August     January   November  November  February
## [15] May         August     July      December  August     August     September
## [22] November February April
## 11 Levels: April August December February January July March May ... September
```

```
factor_months_vector <- factor_month
factor_months_vector
```

```
## [1] March      April      January   November  January   September October
## [8] September November August     January   November  November  February
## [15] May         August     July      December  August     August     September
## [22] November February April
## 11 Levels: April August December February January July March May ... September
```

```
summary(factor_month)
```

```
##      April      August December February January      July      March      May
##          2          4          1          2          3          1          1          1
## November October September
##          5          1          3
```

```
summary(factor_months_vector)
```

```
##      April      August December February January      July      March      May
##          2          4          1          2          3          1          1          1
## November October September
##          5          1          3
```

```
Direction <- c("East", "West", "North")
Direction
```

```
## [1] "East" "West" "North"
```

```
Frequency <- c(1, 4, 3)
Frequency
```

```
## [1] 1 4 3
```

```
vec <- data.frame(Direction, Frequency)
vec
```

```
##   Direction Frequency
## 1      East          1
## 2      West          4
## 3     North          3
```

```
factor_vec <- factor(Direction)
```

```
new_order_data <- factor(factor_vec, levels = c("East", "West", "North"))  
print(new_order_data)
```

```
## [1] East West North  
## Levels: East West North
```

```
setwd("C:/Users/Naomi/Desktop")  
getwd()
```

```
## [1] "C:/Users/Naomi/Desktop"
```

```
e_data <- read.table("import_march.csv", sep=";", header=TRUE, stringsAsFactor=FALSE);  
e_data
```

```
## Students Strategy.1 Strategy.2 Strategy.3  
## 1 Male 8 10 8  
## 2 4 8 6  
## 3 0 6 4  
## 4 Female 14 4 15  
## 5 10 2 12  
## 6 6 0 9
```

```
View(e_data)
```

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.