

MyfirstRMarkdown

2022-06-28

R Markdown

```
library(readr)
iris <- read_csv("iris.csv", col_names = F)

## Rows: 150 Columns: 5
## -- Column specification -----
## Delimiter: ","
## chr (1): X5
## dbl (4): X1, X2, X3, X4
##
## i Use `spec()` to retrieve the full column specification for this data.
## i Specify the column types or set `show_col_types = FALSE` to quiet this message.
colnames(iris) <- c('Sepal.Length', 'Sepal.Width', 'Petal.Length', 'Petal.Width', 'Class')

sapply(iris, class)

## Sepal.Length Sepal.Width Petal.Length Petal.Width      Class
##      "numeric"      "numeric"      "numeric"      "numeric" "character"

iris$Class <- factor(iris$Class)
sapply(iris, class)

## Sepal.Length Sepal.Width Petal.Length Petal.Width      Class
##      "numeric"      "numeric"      "numeric"      "numeric"      "factor"

#install.packages("dplyr")
library(dplyr)

##
## Attaching package: 'dplyr'
##
## The following objects are masked from 'package:stats':
##
##      filter, lag
##
## The following objects are masked from 'package:base':
##
##      intersect, setdiff, setequal, union

iris %>% group_by(Class) %>% summarize( Min.Sepal.Length = min(Sepal.Length, na.rm=T),
                                       Max.Sepal.Length = max(Sepal.Length, na.rm=T),
                                       Mean.Sepal.Length = mean(Sepal.Length, na.rm=T),
                                       SD.Sepal.Length = sd(Sepal.Length, na.rm=T)) %>% as.data.frame

##           Class Min.Sepal.Length Max.Sepal.Length Mean.Sepal.Length
```

```
## 1      Iris-setosa      4.3      5.8      5.006
## 2 Iris-versicolor      4.9      7.0      5.936
## 3 Iris-virginica      4.9      7.9      6.588
## SD.Sepal.Length
## 1      0.3524897
## 2      0.5161711
## 3      0.6358796
```

```
boxplot(Sepal.Length ~ Class, data = iris)
```

