$lesson 02d_3458_561974_iris.R$

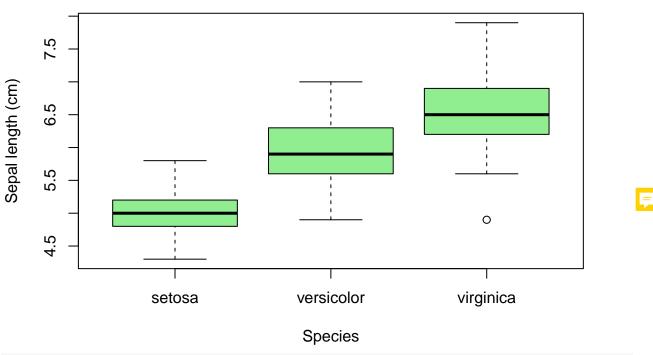
mgastner

2022-01-21

```
F
```

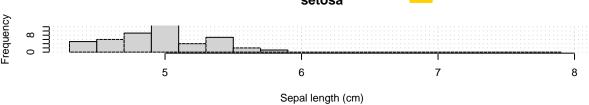
```
data(iris)
summary(iris)
     Sepal.Length
                     Sepal.Width
                                    Petal.Length
                                                     Petal.Width
##
   Min.
          :4.300
                    Min.
                          :2.000
                                          :1.000
                                                          :0.100
##
  1st Qu.:5.100
                    1st Qu.:2.800
                                    1st Qu.:1.600
                                                    1st Qu.:0.300
## Median :5.800
                   Median :3.000
                                   Median :4.350
                                                    Median :1.300
## Mean
          :5.843
                   Mean
                          :3.057
                                   Mean
                                          :3.758
                                                          :1.199
                                                    Mean
  3rd Qu.:6.400
                   3rd Qu.:3.300
                                   3rd Qu.:5.100
                                                    3rd Qu.:1.800
          :7.900
                          :4.400
                                          :6.900
## Max.
                   Max.
                                   Max.
                                                   Max.
                                                          :2.500
##
          Species
## setosa
              :50
  versicolor:50
   virginica:50
##
##
##
##
nrow(iris)
## [1] 150
ncol(iris)
## [1] 5
unique(iris$Species)
## [1] setosa
                 versicolor virginica
## Levels: setosa versicolor virginica
table(iris$Species)
##
##
       setosa versicolor virginica
##
           50
                     50
mean(iris$Sepal.Length)
## [1] 5.843333
aggregate(Sepal.Length~Species,
          data = iris,
          FUN = mean)
        Species Sepal.Length
## 1
                      5.006
         setosa
```

Anderson's Iris Data

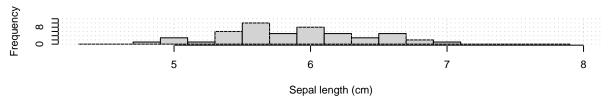


```
par(mfrow = c(3, 1))
setosa <- iris[iris$Species == "setosa",]</pre>
versicolor <- iris[iris$Species == "versicolor",]</pre>
virginica <- iris[iris$Species == "virginica",]</pre>
hist(setosa$Sepal.Length,
     xlab = "Sepal length (cm)",
     main = "setosa",
     ylim = c(0,12),
     breaks = c(seq(4.3,8, 0.2)),
     xlim = c(4.3, 8))
grid()
hist(versicolor$Sepal.Length,
     xlab = "Sepal length (cm)",
     main = "versicolor",
     ylim = c(0,12),
     breaks = c(seq(4.3,8, 0.2)),
     xlim = c(4.3, 8))
grid()
```





versicolor



versicolor

