IRIS

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R Markdown

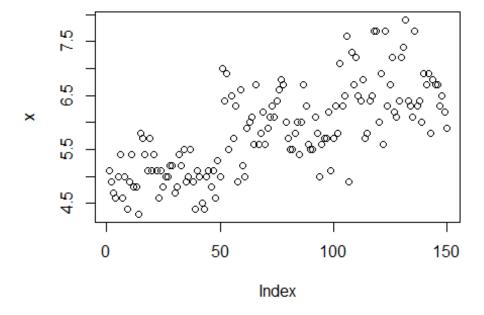
This is the R Markdown file created for introducing the basic building blocks of R to PSA Data Analytics Technical Participants.

```
#install.packages("PerformanceAnalytics",repos = "http://cran.us.r-
project.org")
library(PerformanceAnalytics)
head(iris)
##
     Sepal.Length Sepal.Width Petal.Length Petal.Width Species
## 1
              5.1
                          3.5
                                       1.4
                                                   0.2 setosa
## 2
             4.9
                          3.0
                                                   0.2 setosa
                                       1.4
## 3
             4.7
                          3.2
                                       1.3
                                                   0.2 setosa
## 4
             4.6
                          3.1
                                       1.5
                                                   0.2 setosa
## 5
             5.0
                          3.6
                                       1.4
                                                   0.2 setosa
## 6
             5.4
                          3.9
                                       1.7
                                                   0.4 setosa
str(iris)
## 'data.frame':
                    150 obs. of 5 variables:
## $ Sepal.Length: num 5.1 4.9 4.7 4.6 5 5.4 4.6 5 4.4 4.9 ...
## $ Sepal.Width : num 3.5 3 3.2 3.1 3.6 3.9 3.4 3.4 2.9 3.1 ...
## $ Petal.Length: num 1.4 1.4 1.3 1.5 1.4 1.7 1.4 1.5 1.4 1.5 ...
## $ Petal.Width : num 0.2 0.2 0.2 0.2 0.4 0.3 0.2 0.2 0.1 ...
                 : Factor w/ 3 levels "setosa", "versicolor", ...: 1 1 1 1 1 1
## $ Species
1 1 1 1 ...
dim(iris)
## [1] 150
             5
names(iris)
## [1] "Sepal.Length" "Sepal.Width" "Petal.Length" "Petal.Width"
## [5] "Species"
class(iris)
## [1] "data.frame"
summary(iris)
```

```
Petal.Width
##
     Sepal.Length
                      Sepal.Width
                                       Petal.Length
##
    Min.
           :4.300
                            :2.000
                                             :1.000
                                                              :0.100
                     Min.
                                     Min.
                                                      Min.
    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
                                                      Mean
                                                             :1.199
    3rd Qu.:6.400
                                      3rd Qu.:5.100
                                                      3rd Qu.:1.800
##
                     3rd Qu.:3.300
                                             :6.900
                                                              :2.500
##
    Max.
           :7.900
                     Max.
                            :4.400
                                     Max.
                                                      Max.
##
          Species
##
    setosa
               :50
    versicolor:50
##
##
    virginica:50
##
##
##
```

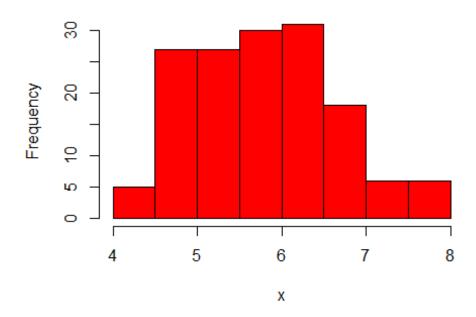
Assigning Variables and Plotting

```
x <- iris$Sepal.Length
y <- iris$Sepal.Width
z <- iris$Species</pre>
```

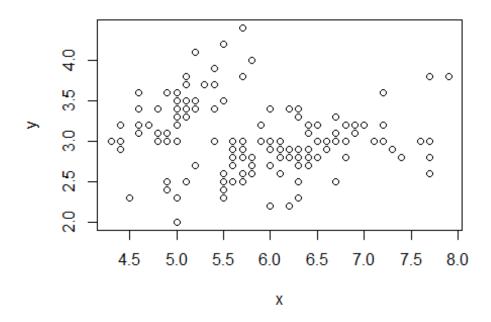


```
hist(x, col = "red")
```

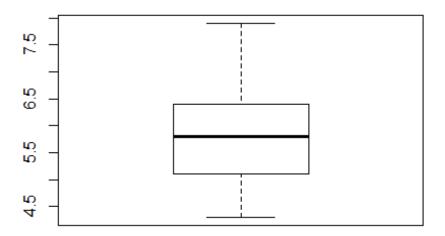
Histogram of x



plot(x,y)



boxplot(x)

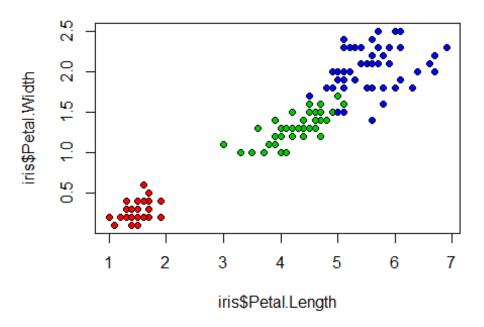


```
source('D:/Data Analytics/R/Scripts/prime.R')
cp(1000)
## [1] 168
## user system elapsed
## 0.01 0.00 0.01
```

Looking at all the species in the same scatterplot for Petal Length & Width

```
plot(iris$Petal.Length, iris$Petal.Width, pch=21,
bg=c("red","green3","blue")[unclass(iris$Species)],
main="Edgar Anderson's Iris Data")
```

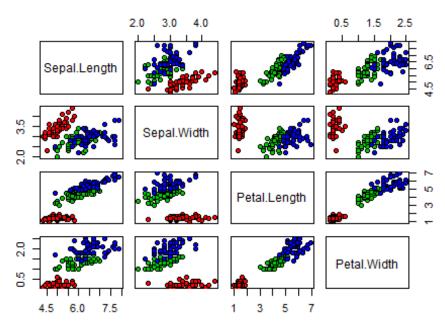
Edgar Anderson's Iris Data



Looking at the scatterplot of all the variables for each species

```
pairs(iris[1:4], main = "Edgar Anderson's Iris Data", pch = 21,
bg = c("red", "green3", "blue")[unclass(iris$Species)])
```

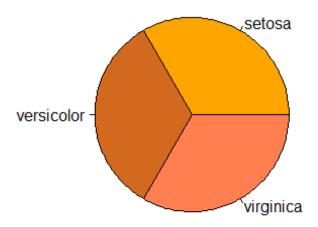
Edgar Anderson's Iris Data



Creating pi chart to show the share of each species

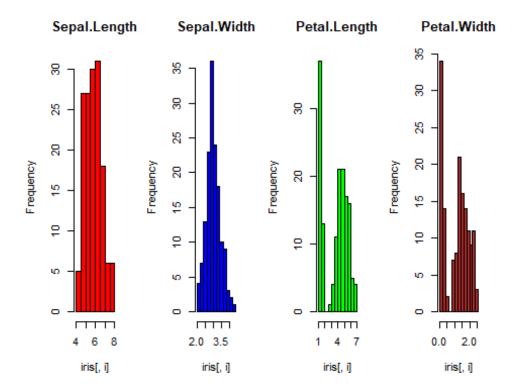
```
pie(table(iris$Species),
main = "Pie Chart of the Iris data set Species",
col = c("orange1", "chocolate", "coral"),
radius = 1)
```

Pie Chart of the Iris data set Species



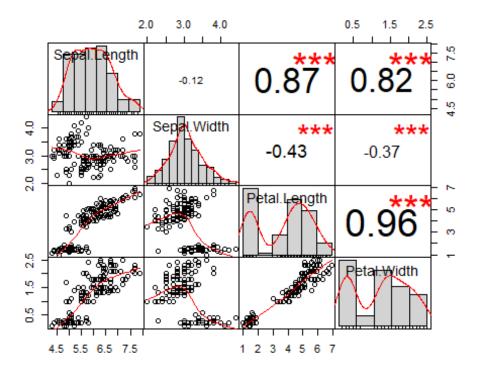
Using for loop to create multiple plots

```
par(mfrow=c(1,4))
color <- c("red", "blue", "green", "brown")
for(i in 1:4) {
hist(iris[,i], main=names(iris)[i], col = color[i]) }</pre>
```



Finding out the correlation among all the numerical variables cor(iris[,c(1:4)])

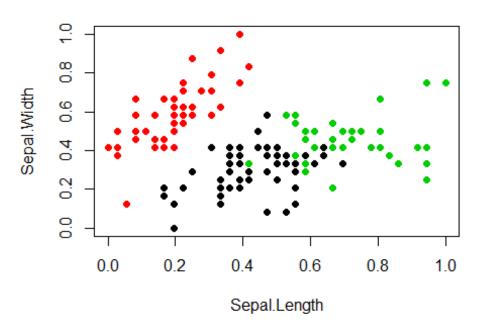
```
##
                Sepal.Length Sepal.Width Petal.Length Petal.Width
## Sepal.Length
                   1.0000000 -0.1175698
                                            0.8717538
                                                         0.8179411
## Sepal.Width
                  -0.1175698
                               1.0000000
                                            -0.4284401 -0.3661259
## Petal.Length
                   0.8717538
                              -0.4284401
                                            1.0000000
                                                         0.9628654
## Petal.Width
                   0.8179411
                              -0.3661259
                                            0.9628654
                                                         1.0000000
chart.Correlation(iris[,c(1,2,3,4)], histogram=TRUE, pch=19)
```



Demostration of K Means Clustering

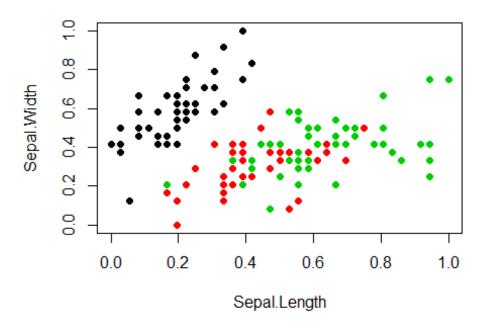
```
normalize <- function(x){</pre>
  return ((x-min(x))/(max(x)-min(x)))
}
iris$Sepal.Length<- normalize(iris$Sepal.Length)</pre>
iris$Sepal.Width<- normalize(iris$Sepal.Width)</pre>
iris$Petal.Length<- normalize(iris$Petal.Length)</pre>
iris$Petal.Width<- normalize(iris$Petal.Width)</pre>
head(iris)
     Sepal.Length Sepal.Width Petal.Length Petal.Width Species
##
## 1
       0.2222222
                    0.6250000
                                 0.06779661 0.04166667
                                                          setosa
## 2
       0.16666667
                    0.4166667
                                 0.06779661 0.04166667
                                                         setosa
       0.1111111
                                 0.05084746 0.04166667
## 3
                    0.5000000
                                                          setosa
## 4
       0.08333333
                    0.4583333
                                 0.08474576 0.04166667
                                                         setosa
                                 0.06779661 0.04166667
## 5
       0.19444444
                    0.6666667
                                                          setosa
## 6
       0.30555556
                    0.7916667
                                 0.11864407 0.12500000
                                                         setosa
result<- kmeans(iris[,c(1,2,3,4)],3)
plot(iris[c(1,2)], col=result$cluster, pch = 19, main =" Clusters based on
Sepal Length and Width")
```

Clusters based on Sepal Length and Width



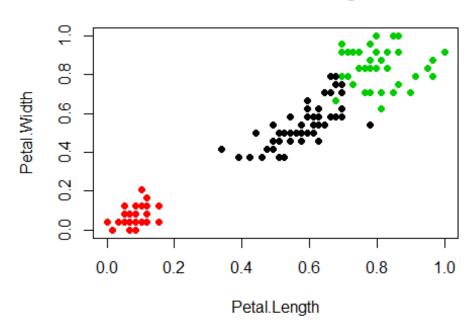
plot(iris[c(1,2)], col=iris\$Species, pch = 19, main =" Clusters based on
Flower Species")

Clusters based on Flower Species



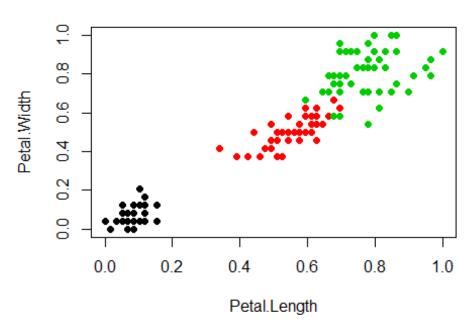
plot(iris[c(3,4)], col=result\$cluster, pch = 19, main =" Clusters based on
Petal Length and Width")

Clusters based on Petal Length and Width



plot(iris[c(3,4)], col=iris\$Species, pch = 19, main =" Clusters based on
Flower Species")

Clusters based on Flower Species

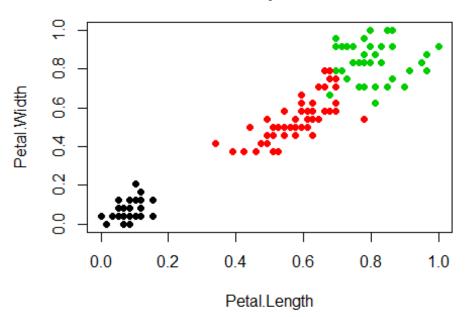


Create getmode function to obtain mode.

```
getmode <- function(v) {
   uniqv <- unique(v)
   uniqv[which.max(tabulate(match(v, uniqv)))]
}</pre>
```

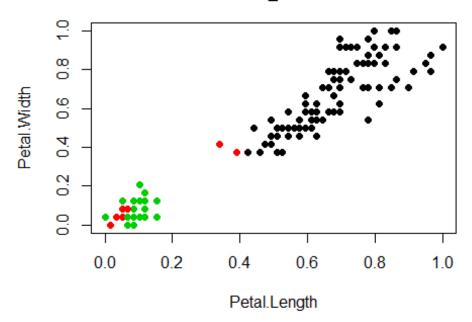
Running the k means algorithms four times on the same dataset

```
avg <- NULL
for (i in 1:15) {
    set.seed(100 +50*i+i*i)
    result<- kmeans(iris[,c(1,2,3,4)],3)
plot(iris[c(3,4)], col=result$cluster, pch = 19, main =c(" Clusters based on
Petal Length and Width: Iteration ", i))
avg <- rbind(result$cluster, avg)
print(avg)
}</pre>
```



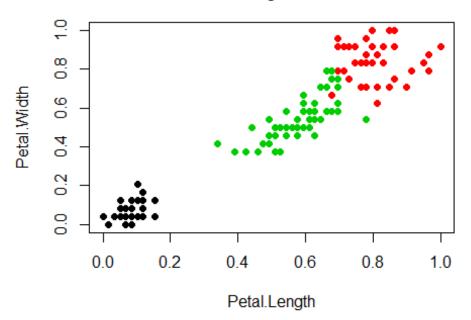
```
[,1] [,2] [,3] [,4] [,5] [,6] [,7] [,8] [,9] [,10] [,11] [,12] [,13]
## [1,]
                     1
                                              1
                                                         1
##
        [,14] [,15] [,16] [,17] [,18] [,19] [,20] [,21] [,22] [,23] [,24]
## [1,]
        [,25] [,26] [,27] [,28] [,29] [,30] [,31] [,32] [,33] [,34] [,35]
## [1,]
##
        [,36] [,37] [,38] [,39] [,40] [,41] [,42] [,43] [,44] [,45] [,46]
## [1,]
        [,47] [,48] [,49] [,50] [,51] [,52] [,53] [,54] [,55] [,56] [,57]
##
## [1,]
        [,58] [,59] [,60] [,61] [,62] [,63] [,64] [,65] [,66] [,67] [,68]
##
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        [,69] [,70] [,71] [,72] [,73] [,74] [,75] [,76] [,77] [,78] [,79]
##
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        [,80] [,81] [,82] [,83] [,84] [,85] [,86] [,87] [,88] [,89] [,90]
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##
        [,91] [,92] [,93] [,94] [,95] [,96] [,97] [,98] [,99] [,100] [,101]
## [1,]
        [,102] [,103] [,104] [,105] [,106] [,107] [,108] [,109] [,110] [,111]
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##
        [,112] [,113] [,114] [,115] [,116] [,117] [,118] [,119] [,120] [,121]
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        [,122] [,123] [,124] [,125] [,126] [,127] [,128] [,129] [,130] [,131]
## [1,]
        [,132] [,133] [,134] [,135] [,136] [,137] [,138] [,139] [,140] [,141]
## [1,]
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                                                        3
```

```
## [,142] [,143] [,144] [,145] [,146] [,147] [,148] [,149] [,150]
## [1,] 3 2 3 3 2 3 3 2
```



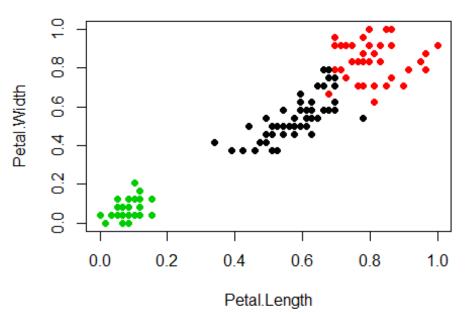
```
[,1] [,2] [,3] [,4] [,5] [,6] [,7] [,8] [,9] [,10] [,11] [,12] [,13]
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##
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        [,36] [,37] [,38] [,39] [,40] [,41] [,42] [,43] [,44] [,45]
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        [,58] [,59] [,60] [,61] [,62] [,63] [,64] [,65] [,66] [,67] [,68]
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        [,69] [,70] [,71] [,72] [,73] [,74] [,75] [,76] [,77] [,78] [,79]
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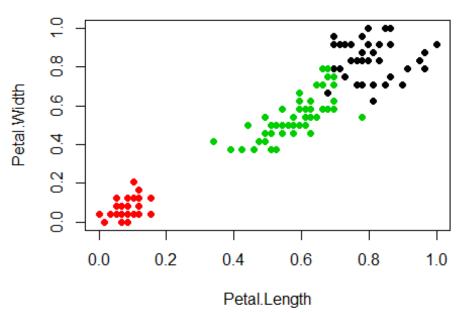
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[,1] [,2] [,3] [,4] [,5] [,6] [,7] [,8] [,9] [,10] [,11] [,12] [,13]
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         [,91] [,92] [,93] [,94] [,95] [,96] [,97] [,98] [,99] [,100] [,101]
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##
         [,102] [,103] [,104] [,105] [,106] [,107] [,108] [,109] [,110] [,111]
## [1,]
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## [2,]
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## [3,]
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         [,112] [,113] [,114] [,115] [,116] [,117] [,118] [,119] [,120] [,121]
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## [3,]
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## [3,]
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## [3,]
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##		[,1]	[,2][31 [,4	1] [,5]	[,6]	[,7]	[,8] [,9][,1	10] [,1	11] [,1	12] [,1	.3]
##	[1,]	3	3	3	3 3		3	3	3	3	3	3	3
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##	[4,]	1	1	1	1 1	1	1	1	1	1	1	1	1
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##	[1,]	3	3	3	3	3	3	3	3	3	3	3	
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##	[3,]	3	2	3	3	3	2	2	3	3	3	2	
##	[4,]	1	1	1	1	1	1	1	1	1	1	1	
##		[,36]	[,37]	[,38]	[,39]	[,40]	[,41]	[,42]	[,43]	[,44]	[,45]	[,46]	
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	[4,]	1	1	1	1	1	1	1	1	1	1	1	
##		[,47]	[,48]	[,49]	[,50]	[,51]	[,52]	[,53]	[,54]	[,55]	[,56]	[,57]	
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	[3,]	3	2	3	3	1	1	1	1	1	1	1	
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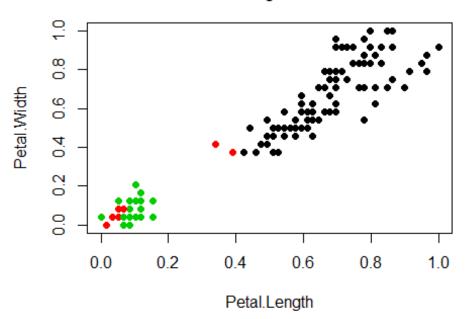
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## [4,]
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## [4,]
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##	[,1]	[,2] [,3] [,4	1] [,5]	[,6]	[,7]	[,8]	,9] [,:	10] [,1	11] [,1	12] [,1	.3]
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## [2,]	3	3	3	3 3	3	3	3	3	3	3	3	3
## [3,]	1	1	1	1 1	. 1	1	1	1	1	1	1	1
## [4,]	3	2	2	2 3	3	3	3	2	2	3	3	2
## [5,]	1	1	1	1 1	. 1	1	1	1	1	1	1	1
##	[,14]	[,15]	[,16]	[,17]	[,18]	[,19]	[,20]	[,21]	[,22]	[,23]	[,24]	
## [1,]	2	2	2	2	2	2	2	2	2	2	2	
## [2,]	3	3	3	3	3	3	3	3	3	3	3	
## [3,]	1	1	1	1	1	1	1	1	1	1	1	
## [4,]	2	3	3	3	3	3	3	3	3	3	3	
## [5,]	1	1	1	1	1	1	1	1	1	1	1	
##	[,25]	[,26]	[,27]	[,28]	[,29]	[,30]	[,31]	[,32]	[,33]	[,34]	[,35]	
## [1,]	2	2	2	2	2	2	2	2	2	2	2	
## [2,]	3	3	3	3	3	3	3	3	3	3	3	
## [3,]	1	1	1	1	1	1	1	1	1	1	1	
## [4,]	3	2	3	3	3	2	2	3	3	3	2	
## [5,]	1	1	1	1	1	1	1	1	1	1	1	
##	[,36]	[,37]	[,38]	[,39]	[,40]	[,41]	[,42]	[,43]	[,44]	[,45]	[,46]	
## [1,]	2	2	2	2	2	2	2	2	2	2	2	
## [2,]	3	3	3	3	3	3	3	3	3	3	3	
## [3,]	1	1	1	1	1	1	1	1	1	1	1	
## [4,]	2	3	3	2	3	3	2	2	3	3	2	
## [5,]	1	1	1	1	1	1	1	1	1	1	1	
##	[,47]	[,48]	[,49]	[,50]	[,51]	[,52]	[,53]	[,54]	[,55]	[,56]	[,57]	
## [1,]	2	2	2	2	1	3	1	3	3	3	3	
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## [4,]
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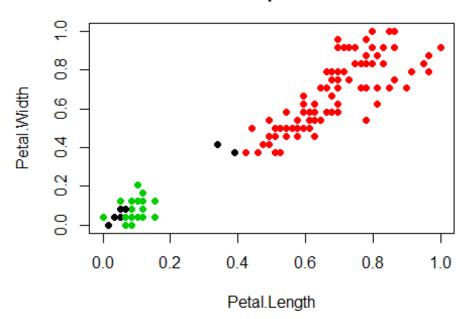
##	[5,]	3	3	2	2	3	3	3	2	3	3
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##	[3,]	2	3	2	2	2	3	2	2	3	
##	[4,]	1	1	1	1	1	1	1	1	1	
##	[5,]	3	2	3	3	3	2	3	3	2	



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   [6,]
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                   [,103] [,104] [,105] [,106] [,107] [,108]
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   [4,]
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## [5,]
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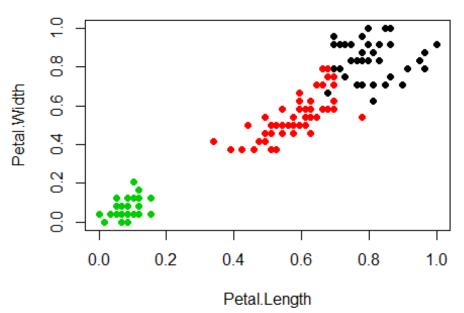
## [6,	,]	2	3	3	3	3	2	3	3	3	3
##		[,112]	[,113]	[,114]	[,115]	[,116]	[,117]	[,118]	[,119]	[,120]	[,121]
## [1,	,]	1	1	1	1	1	1	1	1	1	1
## [2]	,]	1	1	3	1	1	1	1	1	3	1
## [3,	,]	2	2	1	2	2	2	2	2	1	2
## [4,	,]	2	2	3	2	2	2	2	2	3	2
## [5]	,]	1	1	1	1	1	1	1	1	1	1
## [6,	,]	3	3	2	3	3	3	3	3	2	3
##		[,122]	[,123]	[,124]	[,125]	[,126]	[,127]	[,128]	[,129]	[,130]	[,131]
## [1,	,]	1	1	1	1	1	1	1	1	1	1
## [2]	,]	3	1	3	1	1	3	3	1	1	1
## [3,	,]	1	2	1	2	2	1	1	2	2	2
## [4]	,]	3	2	3	2	2	3	3	2	2	2
## [5]	,]	1	1	1	1	1	1	1	1	1	1
## [6,	,]	2	3	2	3	3	2	2	3	3	3
##		[,132]	[,133]	[,134]	[,135]	[,136]	[,137]	[,138]	[,139]	[,140]	[,141]
## [1,	,]	1	1	1	1	1	1	1	1	1	1
## [2]	,]	1	1	3	3	1	1	1	3	1	1
## [3]	,]	2	2	1	1	2	2	2	1	2	2
## [4,	,]	2	2	3	3	2	2	2	3	2	2
## [5]	,]	1	1	1	1	1	1	1	1	1	1
## [6,	,]	3	3	2	2	3	3	3	2	3	3
##		[,142]	[,143]	[,144]	[,145]	[,146]	[,147]	[,148]	[,149]	[,150]	
## [1,	,]	1	1	1	1	1	1	1	1	1	
## [2,	,]	1	3	1	1	1	3	1	1	3	
## [3,	,]	2	1	2	2	2	1	2	2	1	
## [4]	,]	2	3	2	2	2	3	2	2	3	
## [5]	,]	1	1	1	1	1	1	1	1	1	
## [6,	,]	3	2	3	3	3	2	3	3	2	



##	[,1]	[,2] [,3] [,4	1] [,5]	[,6]	[,7]	[,8][,9] [,:	10] [,:	11] [,:	12] [,1	[3]
## [1,]	3	1	1	1 3		3	3	1	1	3	3	1
## [2,]	3	2	2	2 3	3	3	3	2	2	3	3	2
## [3,]	2	2	2	2 2	2	2	2	2	2	2	2	2
## [4,]	3	3	3	3 3	3	3	3	3	3	3	3	3
## [5,]	1	1	1	1 1	1	1	1	1	1	1	1	1
## [6,]	3	2	2	2 3	3	3	3	2	2	3	3	2
## [7,]	1	1	1	1 1	1	1	1	1	1	1	1	1
##	[,14]	[,15]	[,16]	[,17]	[,18]	[,19]	[,20]	[,21]	[,22]	[,23]	[,24]	
## [1,]	1	3	3	3	3	3	3	3	3	3	3	
## [2,]	2	3	3	3	3	3	3	3	3	3	3	
## [3,]	2	2	2	2	2	2	2	2	2	2	2	
## [4,]	3	3	3	3	3	3	3	3	3	3	3	
## [5,]	1	1	1	1	1	1	1	1	1	1	1	
## [6,]	2	3	3	3	3	3	3	3	3	3	3	
## [7,]	1	1	1	1	1	1	1	1	1	1	1	
##	[,25]	[,26]	[,27]	[,28]	[,29]	[,30]	[,31]	[,32]	[,33]	[,34]	[,35]	
## [1,]	3	1	3	3	3	1	1	3	3	3	1	
## [2,]	3	2	3	3	3	2	2	3	3	3	2	
## [3,]	2	2	2	2	2	2	2	2	2	2	2	
## [4,]	3	3	3	3	3	3	3	3	3	3	3	
## [5,]	1	1	1	1	1	1	1	1	1	1	1	
## [6,]	3	2	3	3	3	2	2	3	3	3	2	
## [7,]	1	1	1	1	1	1	1	1	1	1	1	
##	[,36]	[,37]	[,38]	[,39]	[,40]	[,41]	[,42]	[,43]	[,44]	[,45]	[,46]	
## [1,]	1	3	3	1	3	3	1	1	3	3	1	
## [2,]	2	3	3	2	3	3	2	2	3	3	2	

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## [7,]
                   [,103] [,104] [,105] [,106] [,107] [,108] [,109] [,110] [,111]
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## [1,]
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## [4,]
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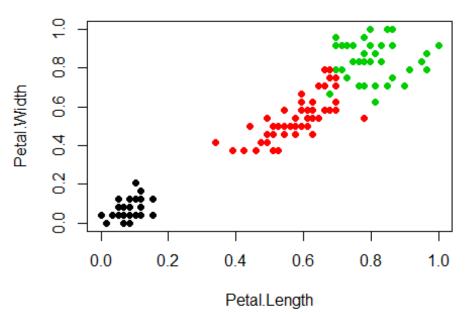
##	[5,]	3	2	2	2	2	3	2	2	2	2
##	[6,]	1	1	1	1	1	1	1	1	1	1
##	[7,]	2	3	3	3	3	2	3	3	3	3
##		[,112]	[,113]	[,114]	[,115]	[,116]	[,117]	[,118]	[,119]	[,120]	[,121]
##	[1,]	2	2	2	2	2	2	2	2	2	2
##	[2,]	1	1	1	1	1	1	1	1	1	1
##	[3,]	1	1	3	1	1	1	1	1	3	1
##	[4,]	2	2	1	2	2	2	2	2	1	2
##	[5,]	2	2	3	2	2	2	2	2	3	2
##	[6,]	1	1	1	1	1	1	1	1	1	1
##	[7,]	3	3	2	3	3	3	3	3	2	3
##		[,122]	[,123]	[,124]	[,125]	[,126]	[,127]	[,128]	[,129]	[,130]	[,131]
##	[1,]	2	2	2	2	2	2	2	2	2	2
##	[2,]	1	1	1	1	1	1	1	1	1	1
##	[3,]	3	1	3	1	1	3	3	1	1	1
##	[4,]	1	2	1	2	2	1	1	2	2	2
##	[5,]	3	2	3	2	2	3	3	2	2	2
##	[6,]	1	1	1	1	1	1	1	1	1	1
##	[7,]	2	3	2	3	3	2	2	3	3	3
##		[,132]	[,133]	[,134]	[,135]	[,136]	[,137]	[,138]	[,139]	[,140]	[,141]
##	[1,]	2	2	2	2	2	2	2	2	2	2
##	[2,]	1	1	1	1	1	1	1	1	1	1
##	[3,]	1	1	3	3	1	1	1	3	1	1
##	[4,]	2	2	1	1	2	2	2	1	2	2
##	[5,]	2	2	3	3	2	2	2	3	2	2
##	[6,]	1	1	1	1	1	1	1	1	1	1
##	[7,]	3	3	2	2	3	3	3	2	3	3
##		[,142]	[,143]	[,144]		[,146]	[,147]	[,148]	[,149]	[,150]	
##	[1,]	2	2	2	2	2	2	2	2	2	
##	[2,]	1	1	1	1	1	1	1	1	1	
##	[3,]	1	3	1	1	1	3	1	1	3	
##	[4,]	2	1	2	2	2	1	2	2	1	
##	[5,]	2	3	2	2	2	3	2	2	3	
##	[6,]	1	1	1	1	1	1	1	1	1	
##	[7,]	3	2	3	3	3	2	3	3	2	



##	[,1]	[,2] [,3] [,4	1] [,5]	[,6]	[,7]	[,8]	, 9] [,10] [,	11] [,:	12] [,1	L3]
## [1,]	3	3	3	3 3	3	3	3	3	3	3	3	3
## [2,]	3	1	1	1 3	3	3	3	1	1	3	3	1
## [3,]	3	2	2	2 3	3	3	3	2	2	3	3	2
## [4,]	2	2	2	2 2	2	2	2	2	2	2	2	2
## [5,]	3	3	3	3 3	3	3	3	3	3	3	3	3
## [6,]	1	1	1	1 1	1	1	1	1	1	1	1	1
## [7,]	3	2	2	2 3	3	3	3	2	2	3	3	2
## [8,]	1	1	1	1 1	1	1	1	1	1	1	1	1
##	[,14]	[,15]	[,16]	[,17]	[,18]	[,19]	[,20]	[,21]	[,22]	[,23]	[,24]	
## [1,]	3	3	3	3	3	3	3	3	3	3	3	
## [2,]	1	3	3	3	3	3	3	3	3 3	3	3	
## [3,]	2	3	3	3	3	3	3	3	3 3	3	3	
## [4,]	2	2	2	2	2	2	2	2 2	2 2	2	2	
## [5,]	3	3	3	3	3	3	3	3	3 3	3	3	
## [6,]	1	1	1	1	1	1	1	. :	l 1	1	1	
## [7,]	2	3	3	3	3	3	3	3	3 3	3	3	
## [8,]	1	1	1	1	1	1	1	. :	l 1	1	1	
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## [1,]	3	3	3	3	3	3			3 3		3	
## [2,]	3	1	3	3	3	1	1	. 3	3 3	3	1	
## [3,]	3	2	3	3	3	2	2	2	3 3	3	2	
## [4,]	2	2	2	2	2	2	2	2 2	2 2	2	2	
## [5,]	3	3	3	3	3	3	3	3	3 3	3	3	
## [6,]	1	1	1	1	1	1	1		l 1	1	1	
## [7,]	3	2	3	3	3	2	2	2 3	3 3	3	2	
## [8,]	1	1	1	1	1	1	1		l 1	1	1	

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[,36] [,37] [,38] [,39] [,40] [,41] [,42] [,43] [,44] [,45] [,46]
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## [4,]
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##	[5,]	1	1	1	1	1 1	l 1	1	1	1	2
##	[6,]	3	3	3	3	3 3	3	3	3	3	2
##	[7,]	1	1	1	2	1 1	l 1	1	2	1	1
##	[8,]	2	2	2	2	2 2	2 2	2	2	2	3
##		[,102]	[,103]	[,104]	[,105]	[,106]	[,107]	[,108]	[,109]	[,110]	[,111]
##	[1,]	2	1	1	1	1	2	1	1	1	1
##	[2,]	2	2	2	2	2	2	2	2	2	2
##	[3,]	1	1	1	1	1	1	1	1	1	1
##	[4,]	3	1	1	1	1	3	1	1	1	1
##	[5,]	1	2	2	2	2	1	2	2	2	2
##	[6,]	3	2	2	2	2	3	2	2	2	2
##	[7,]	1	1	1	1	1	1	1	1	1	1
##	[8,]	2	3	3	3	3	2	3	3	3	3
##		[,112]	[,113]	[,114]	[,115]	[,116]	[,117]	[,118]	[,119]	[,120]	[,121]
##	[1,]	1	1	2	1	1	1	1	1	2	1
	[2,]	2	2	2	2	2	2	2	2	2	2
##	[3,]	1	1	1	1	1	1	1	1	1	1
##	[4,]	1	1	3	1	1	1	1	1	3	1
##	[5,]	2	2	1	2	2	2	2	2	1	2
##	[6,]	2	2	3	2	2	2	2	2	3	2
##	[7,]	1	1	1	1	1	1	1	1	1	1
##	[8,]	3	3	2	3	3	3	3	3	2	3
##	F4 7	[,122]	[,123]	[,124]	[,125]	[,126]	[,127]	[,128]	[,129]	[,130]	[,131]
##		2	1	2	1	1	2	2	1	1	1
##	[2,]	2	2	2	2	2	2	2	2	2	2
##	[3,]	1	1	1	1	1	1	1	1	1	1
##	[4,]	3	1	3	1	1	3	3	1	1	1
##	[5,]	1	2	1	2	2	1	1	2	2	2
##	[6,]	3	2	3	2	2	3	3	2	2	2
##	[7,]	1 2	1	1 2	1	1	1 2	1 2	1	1	1 3
## ##	[8,]		[,133]	[,134]	[,135]	[,136]	[,137]	[,138]	_	_	_
##	[1,]	[,132] 1	1	2	2	1	1	1	2	[,140] 1	[,141] 1
##	[2,]	2	2	2	2	2	2	2	2	2	2
	[3,]	1	1	1	1	1	1	1	1	1	1
	[4,]	1	1	3	3	1	1	1	3	1	1
	[5,]	2	2	1	1	2	2	2	1	2	2
	[6,]	2	2	3	3	2	2	2	3	2	2
	[7,]	1	1	1	1	1	1	1	1	1	1
	[8,]	3	3	2	2	3	3	3	2	3	3
##	[-,]					[,146]	_				
	[1,]	1	2	1	1	1	2	1	1	2	
	[2,]	2	2	2	2	2	2	2	2	2	
	[3,]	1	1	1	1	1	1	1	1	1	
	[4,]	1	3	1	1	1	3	1	1	3	
##	[5,]	2	1	2	2	2	1	2	2	1	
##	[6,]	2	3	2	2	2	3	2	2	3	
##	[7,]	1	1	1	1	1	1	1	1	1	
##	[8,]	3	2	3	3	3	2	3	3	2	

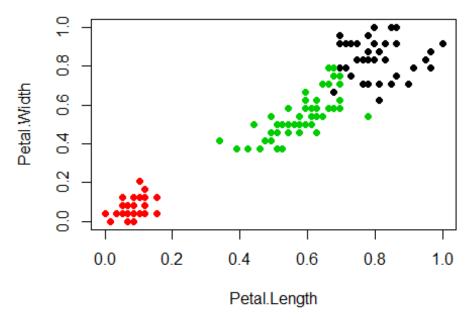


##		[,1]	[,2] [,3] [,4	4] [,5	[,6]	[,7]	[,8][,9][,:	10] [,1	L1] [,1	12] [,	13]
##	[1,]	1	1	1	1		1	1	1	1	1	1	1
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##	[4,]	3	2	2	2 3	3	3	3	2	2	3	3	2
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##	[6,]	3	3	3	3 3	3	3	3	3	3	3	3	3
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##		[,14]	[,15]	[,16]	[,17]	[,18]	[,19]	[,20]	[,21]	[,22]	[,23]	[,24]	
##	[1,]	1	1	1	1	1	1	1	1	1	1	1	
##	[2,]	3	3	3	3	3	3	3	3	3	3	3	
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##	[4,]	2	3	3	3	3	3	3	3	3	3	3	
##	[5,]	2	2	2	2	2	2	2	2	2	2	2	
##	[6,]	3	3	3	3	3	3	3	3	3	3	3	
##	[7,]	1	1	1	1	1	1	1	1	1	1	1	
##	[8,]	2	3	3	3	3	3	3	3	3	3	3	
##	[9,]	1	1	1	1	1	1	1	1	1	1	1	
##		[,25]	[,26]	[,27]	[,28]	[,29]	[,30]	[,31]	[,32]	[,33]	[,34]	[,35]	
##	[1,]	1	1	1	1	1	1	1	1	1	1	1	
##	[2,]	3	3	3	3	3	3	3	3	3	3	3	
##	[3,]	3	1	3	3	3	1	1	3	3	3	1	
##	[4,]	3	2	3	3	3	2	2	3	3	3	2	
##	[5,]	2	2	2	2	2	2	2	2	2	2	2	
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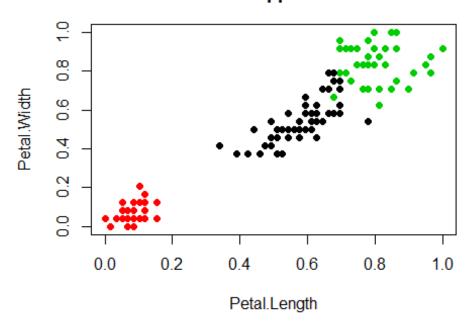


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##	[4,]	2	2	2	2						
##	[5,]	1	1	1	1						
##	[6,]	3	1	1	3						
##	[7,]	1	2	2	1						
##	[8,]	3	2	2	3						
##	[9,]	1	1	1	1						
##	[10,]	2	3	3	2						



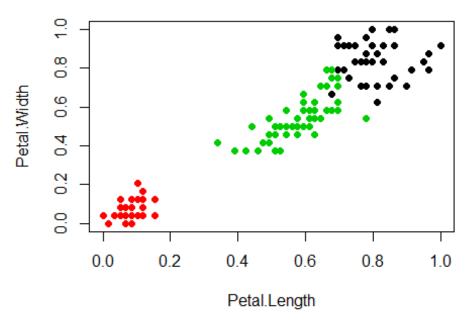
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##	[6,]	1	1	1	1						
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##	[11,]	2	3	3	2						



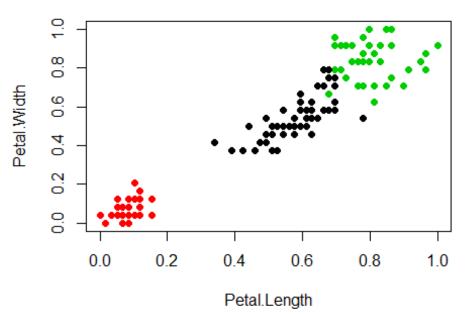
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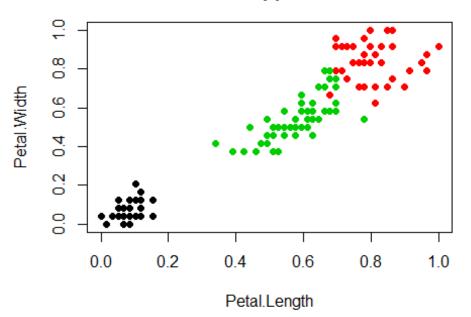
##		[,1]	[,2]	[,3]	[,4]	[,5]	[,6]	[,7]	[,8]	[,9]	[,10]	[,11]	[,12]	[,13	3]
##	[1,]	2	2	2	2	2	2	2	2	2	2	2	2		2
##	[2,]	2	2	2	2	2	2	2	2	2	2	2	2		2
##	[3,]	2	2	2	2	2	2	2	2	2	2	2	2		2
##	[4,]	2	2	2	2	2	2	2	2	2	2	2	2		2
##	[5,]	1	1	1	1	1	1	1	1	1	1	1	1		1
##	[6,]	3	3	3	3	3	3	3	3	3	3	3	3		3
##	[7,]	3	1	1	1	3	3	3	3	1	1	3	3		1
##	[8,]	3	2	2	2	3	3	3	3	2	2	3	3		2
##	[9,]	2	2	2	2	2	2	2	2	2	2	2	2		2
##	[10,]	3	3	3	3	3	3	3	3	3	3	3	3		3
##	[11,]	1	1	1	1	1	1	1	1	1	1	1	1		1
##	[12,]	3	2	2	2	3	3	3	3	2	2	3	3		2
##	[13,]	1	1	1	1	1	1	1	1	1	1	1	1		1
##		[,14]	[,15	5] [,1	L6] [,	17] [[,18]	[,19 ⁻	[,26) [,2	21] [,	22] [,:	23] [,	24]	
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##	[3,]	2	2	2	2	2	2	2	2	2	2	2	2	2	
##	[4,]	2	2	2	2	2	2	2	2	2	2	2	2	2	
##	[5,]	1	L	1	1	1	1	1	L	1	1	1	1	1	
##	[6,]	3	3	3	3	3	3	3	3	3	3	3	3	3	
##	[7,]	1	L	3	3	3	3	3	3	3	3	3	3	3	
##	[8,]	2	2	3	3	3	3	3	3	3	3	3	3	3	
##	[9,]	2	2	2	2	2	2	2	2	2	2	2	2	2	
##	[10,]	3	3	3	3	3	3	3	3	3	3	3	3	3	
##	[11,]	1	L	1	1	1	1	1		1	1	1	1	1	
##	[12,]	2	<u>)</u>	3	3	3	3	3	3	3	3	3	3	3	

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## [13,]	1	1	1	1	1	1	1	1	1	1	1
##	[,25]	[,26]	[,27]	[,28]		[,30]	[,31]	[,32]		[,34]	[,35]
## [1,]	2	2	2	2	2	2	2	2	2	2	2
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## [3,]	2	2	2	2	2	2	2	2	2	2	2
## [4,]	2	2	2	2	2	2	2	2	2	2	2
## [5,]	1	1	1	1	1	1	1	1	1	1	1
## [6,]	3	3	3	3	3	3	3	3	3	3	3
## [7,]	3	1	3	3	3	1	1	3	3	3	1
## [8,]	3	2	3	3	3	2	2	3	3	3	2
## [9,]	2	2	2	2	2	2	2	2	2	2	2
## [10,]	3	3	3	3	3	3	3	3	3	3	3
## [10,]	1	1	1	1	1	1	1	1	1	1	1
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## [12,]	3	2	3	3	3	2	2	3	3	3	2
## [13,]	1	1	1	1	1	1	1	1	1	1	1
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## [1,]	2	2	2	2	2	2	2	2	2	2	2
## [2,]	2	2	2	2	2	2	2	2	2	2	2
## [3,]	2	2	2	2	2	2	2	2	2	2	2
## [4,]	2	2	2	2	2	2	2	2	2	2	2
## [5,]	1	1	1	1	1	1	1	1	1	1	1
## [6,]	3	3	3	3	3	3	3	3	3	3	3
## [7,]	1	3	3	1	3	3	1	1	3	3	1
## [8,]	2	3	3	2	3	3	2	2	3	3	2
## [9,]	2	2	2	2	2	2	2	2	2	2	2
## [10,]	3	3	3	3	3	3	3	3	3	3	3
## [10,]	1	1	1	1	1	1	1	1	1	1	1
## [11,] ## [12,]			3	_			2	2			
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##	[,47]	[,48]	[,49]	[,50]	[,51]	[,52]	[,53]	[,54]	[,55]	[,56]	[,57]
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## [2,]	2	2	2	2	1	3	1	3	3	3	3
## [3,]	2	2	2	2	3	1	3	1	1	1	1
## [4,]	2	2	2	2	1	3	1	3	3	3	3
## [5,]	1	1	1	1	3	2	3	2	2	2	2
## [6,]	3	3	3	3	1	2	1	2	2	2	2
## [7,]	3	1	3	3	2	2	2	2	2	2	2
## [8,]	3	2	3	3	1	1	1	1	1	1	1
## [9,]	2	2	2	2	1	3	1	3	3	3	3
## [10,]	3	3	3	3	2	1	2	1	1	1	1
## [11,]	1	1	1	1	2	3	2	3	3	3	3
## [12,]	3	2	3	3	1	1	1	1	1	1	1
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## [13,]		[,59]	[,60]	[,61]	[,62]	[,63]	[,64]	[,65]	[,66]		
	[,58]									[,67]	[,68]
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## [4,]	3	3	3	3	3	3	3	3	3	3	3
## [5,]	2	2	2	2	2	2	2	2	2	2	2
## [6,]	2	2	2	2	2	2	2	2	2	2	2

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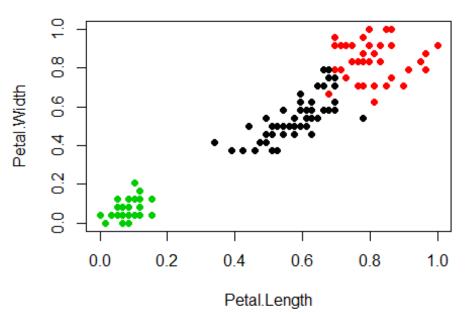
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##	[12,]	3	3	3	3	3	3	3	3	3	3		3	3		3
##	[13,]	1	1	1	1	1	1	1	1	1	1		1	1		1
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	[5,]	1	1	1	1	1	1	1	1	1	1	1
	[6,]	3	3	3	3	3	3	3	3	3	3	3
	[7,]	2	2	2	2	2	2	2	2	2	2	2
	[8,]	2	2	2	2	2	2	2	2	2	2	2
	[9,]	1	2	2	1	2	2	2	2	2	2	2
	10,]	2	1	1	2	1	1	1	1	1	1	1
-	11,]	3	3	3	3	3	3	3	3	3	3	3
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	[5,]	1	1	1	1	1	1	1	1	1	3	1
	[6,]	3	3	3	3	3	3	3	3	3	1	3
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It shows the importance of multiple iteration and averaging them

End of the Script