

# RWorksheet\_Corvera#4b

2024-10-28

```
vectorA <- c(1,2,3,4,5)

matrixB <- matrix(0, nrow = 5, ncol = 5)

for(i in 1:nrow(matrixB)){
  for(j in 1:ncol(matrixB)){
    matrixB[i,j] <- abs(i - j)
  }
}
matrixB
```

```
##      [,1] [,2] [,3] [,4] [,5]
## [1,]    0    1    2    3    4
## [2,]    1    0    1    2    3
## [3,]    2    1    0    1    2
## [4,]    3    2    1    0    1
## [5,]    4    3    2    1    0
```

```
n_rows <- 5

for (i in 1:n_rows) {
  n_stars <- i

  stars <- paste(rep(" ", n_stars), collapse = "")

  cat(stars, "\n")
}
```

```
## *
## **
## ***
## ****
## *****
```

```
input <- is.na(as.integer(readline(prompt="Input a number of terms: ")))
```

```
## Input a number of terms:
```

```
a <- 0
b <- 1

cat(a, " ")
```

```
## 0
```

```
i <- 1
repeat {
  c <- a + b

  cat(c, " ")

  a <- b
  b <- c

  i <- i + 1

  if (i > input) {
    break
  }
}
```

```
## 1
```

```
HouseholdData <- read.csv("C:/Users/victo/OneDrive/Desktop/R/RWorksheet4/HouseholdData.csv")
HouseholdData
```

```
##      Shoesize Height Gender
## 1         6.5     66      F
## 2         9.0     68      F
## 3         8.5     64      F
## 4         8.5     65      F
## 5        10.5     70      M
## 6         7.0     64      F
## 7         9.5     70      F
## 8         9.0     71      F
## 9        13.0     72      M
## 10        7.5     64      F
## 11        10.5     74      M
## 12         8.5     67      F
## 13        12.0     71      M
## 14        10.5     71      M
## 15        13.0     77      M
## 16        11.5     72      M
## 17         8.5     59      F
## 18         5.0     62      F
## 19        10.0     72      M
## 20         6.5     66      F
## 21         7.5     64      F
## 22         8.5     67      M
## 23        10.5     73      M
## 24         8.5     69      F
## 25        10.5     72      M
## 26        11.0     70      M
## 27         9.0     69      M
## 28        13.0     70      M
```

```
head(HouseholdData)
```

```
##      Shoesize Height Gender
## 1         6.5     66      F
## 2         9.0     68      F
## 3         8.5     64      F
## 4         8.5     65      F
## 5        10.5     70      M
## 6         7.0     64      F
```

```
SSMale <- subset(HouseholdData, Gender=="M")
SSMale
```

```
##      Shoesize Height Gender
## 5        10.5     70      M
## 9        13.0     72      M
## 11       10.5     74      M
## 13       12.0     71      M
## 14       10.5     71      M
## 15       13.0     77      M
## 16       11.5     72      M
## 19       10.0     72      M
## 22        8.5     67      M
## 23       10.5     73      M
## 25       10.5     72      M
## 26       11.0     70      M
## 27        9.0     69      M
## 28       13.0     70      M
```

```
SSFemale <- subset(HouseholdData, Gender=="F")
SSFemale
```

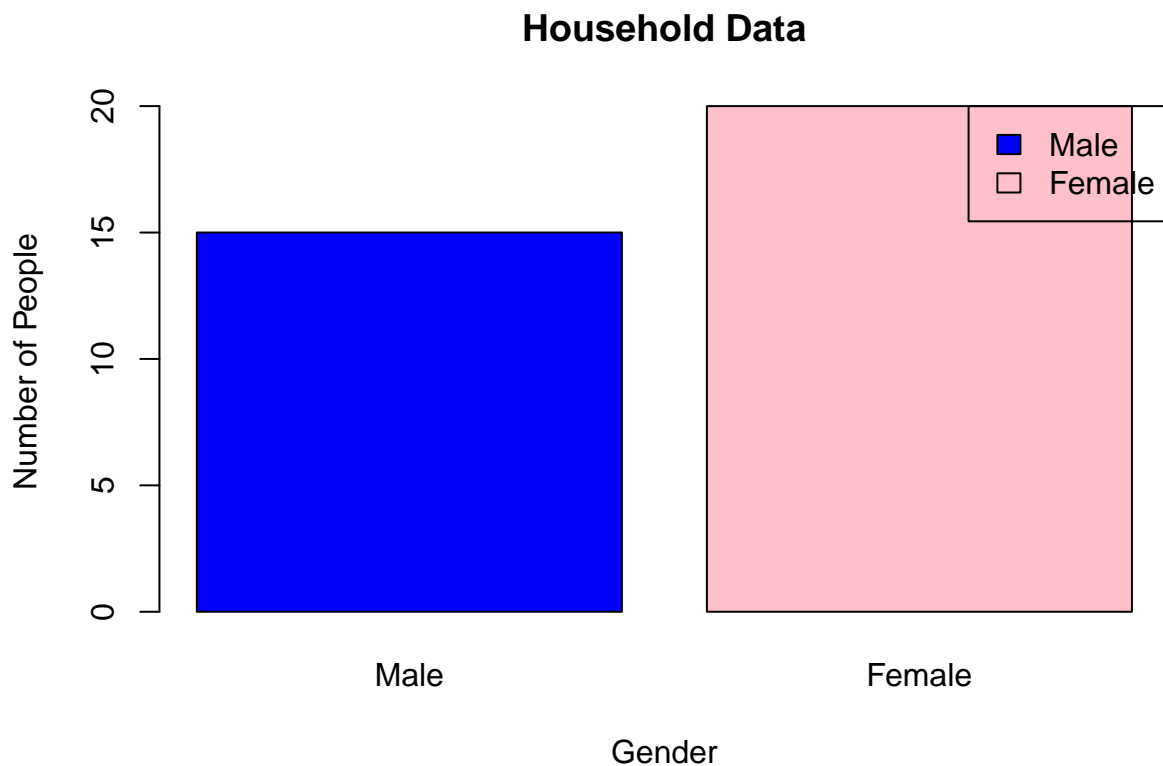
```
##      Shoesize Height Gender
## 1         6.5     66      F
## 2         9.0     68      F
## 3         8.5     64      F
## 4         8.5     65      F
## 6         7.0     64      F
## 7         9.5     70      F
## 8         9.0     71      F
## 10        7.5     64      F
## 12        8.5     67      F
## 17        8.5     59      F
## 18        5.0     62      F
## 20        6.5     66      F
## 21        7.5     64      F
## 24        8.5     69      F
```

```
household_data <- data.frame(
  Category = c("Male", "Female"),
  Count = c(15, 20)
)
```

```

barplot(household_data$Count, names.arg = household_data$Category,
       col = c("blue", "pink"),
       main = "Household Data",
       ylab = "Number of People",
       xlab = "Gender",
       legend.text = c("Male", "Female"),
       args.legend = list(x = "topright"))
)

```



```

expenses <- c(60, 10, 5, 25)

expense_categories <- c("Food", "Electricity", "Savings", "Miscellaneous")

df <- data.frame(expense_categories, expenses)

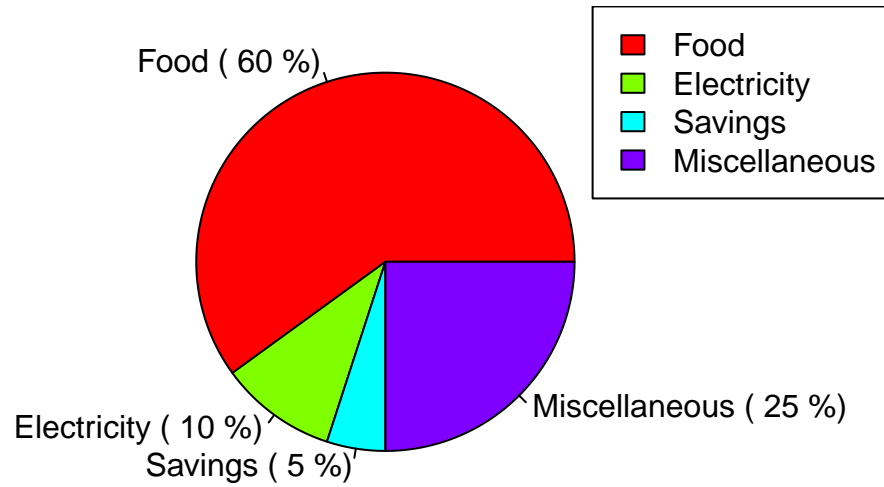
df$percentage <- (df$expenses / sum(df$expenses)) * 100

pie(df$expenses, labels = paste(df$expense_categories, "(", round(df$percentage, 2), "%)"), main = "Del")

legend("topright", legend = df$expense_categories, fill = rainbow(length(df$expense_categories)))

```

## Dela Cruz Family Monthly Expenses



```
data(iris)
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	1.4	0.2	setosa
## 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
## 7	4.6	3.4	1.4	0.3	setosa
## 8	5.0	3.4	1.5	0.2	setosa
## 9	4.4	2.9	1.4	0.2	setosa
## 10	4.9	3.1	1.5	0.1	setosa
## 11	5.4	3.7	1.5	0.2	setosa
## 12	4.8	3.4	1.6	0.2	setosa
## 13	4.8	3.0	1.4	0.1	setosa
## 14	4.3	3.0	1.1	0.1	setosa
## 15	5.8	4.0	1.2	0.2	setosa
## 16	5.7	4.4	1.5	0.4	setosa
## 17	5.4	3.9	1.3	0.4	setosa
## 18	5.1	3.5	1.4	0.3	setosa
## 19	5.7	3.8	1.7	0.3	setosa
## 20	5.1	3.8	1.5	0.3	setosa
## 21	5.4	3.4	1.7	0.2	setosa
## 22	5.1	3.7	1.5	0.4	setosa

## 23	4.6	3.6	1.0	0.2	setosa
## 24	5.1	3.3	1.7	0.5	setosa
## 25	4.8	3.4	1.9	0.2	setosa
## 26	5.0	3.0	1.6	0.2	setosa
## 27	5.0	3.4	1.6	0.4	setosa
## 28	5.2	3.5	1.5	0.2	setosa
## 29	5.2	3.4	1.4	0.2	setosa
## 30	4.7	3.2	1.6	0.2	setosa
## 31	4.8	3.1	1.6	0.2	setosa
## 32	5.4	3.4	1.5	0.4	setosa
## 33	5.2	4.1	1.5	0.1	setosa
## 34	5.5	4.2	1.4	0.2	setosa
## 35	4.9	3.1	1.5	0.2	setosa
## 36	5.0	3.2	1.2	0.2	setosa
## 37	5.5	3.5	1.3	0.2	setosa
## 38	4.9	3.6	1.4	0.1	setosa
## 39	4.4	3.0	1.3	0.2	setosa
## 40	5.1	3.4	1.5	0.2	setosa
## 41	5.0	3.5	1.3	0.3	setosa
## 42	4.5	2.3	1.3	0.3	setosa
## 43	4.4	3.2	1.3	0.2	setosa
## 44	5.0	3.5	1.6	0.6	setosa
## 45	5.1	3.8	1.9	0.4	setosa
## 46	4.8	3.0	1.4	0.3	setosa
## 47	5.1	3.8	1.6	0.2	setosa
## 48	4.6	3.2	1.4	0.2	setosa
## 49	5.3	3.7	1.5	0.2	setosa
## 50	5.0	3.3	1.4	0.2	setosa
## 51	7.0	3.2	4.7	1.4	versicolor
## 52	6.4	3.2	4.5	1.5	versicolor
## 53	6.9	3.1	4.9	1.5	versicolor
## 54	5.5	2.3	4.0	1.3	versicolor
## 55	6.5	2.8	4.6	1.5	versicolor
## 56	5.7	2.8	4.5	1.3	versicolor
## 57	6.3	3.3	4.7	1.6	versicolor
## 58	4.9	2.4	3.3	1.0	versicolor
## 59	6.6	2.9	4.6	1.3	versicolor
## 60	5.2	2.7	3.9	1.4	versicolor
## 61	5.0	2.0	3.5	1.0	versicolor
## 62	5.9	3.0	4.2	1.5	versicolor
## 63	6.0	2.2	4.0	1.0	versicolor
## 64	6.1	2.9	4.7	1.4	versicolor
## 65	5.6	2.9	3.6	1.3	versicolor
## 66	6.7	3.1	4.4	1.4	versicolor
## 67	5.6	3.0	4.5	1.5	versicolor
## 68	5.8	2.7	4.1	1.0	versicolor
## 69	6.2	2.2	4.5	1.5	versicolor
## 70	5.6	2.5	3.9	1.1	versicolor
## 71	5.9	3.2	4.8	1.8	versicolor
## 72	6.1	2.8	4.0	1.3	versicolor
## 73	6.3	2.5	4.9	1.5	versicolor
## 74	6.1	2.8	4.7	1.2	versicolor
## 75	6.4	2.9	4.3	1.3	versicolor
## 76	6.6	3.0	4.4	1.4	versicolor

## 77	6.8	2.8	4.8	1.4 versicolor
## 78	6.7	3.0	5.0	1.7 versicolor
## 79	6.0	2.9	4.5	1.5 versicolor
## 80	5.7	2.6	3.5	1.0 versicolor
## 81	5.5	2.4	3.8	1.1 versicolor
## 82	5.5	2.4	3.7	1.0 versicolor
## 83	5.8	2.7	3.9	1.2 versicolor
## 84	6.0	2.7	5.1	1.6 versicolor
## 85	5.4	3.0	4.5	1.5 versicolor
## 86	6.0	3.4	4.5	1.6 versicolor
## 87	6.7	3.1	4.7	1.5 versicolor
## 88	6.3	2.3	4.4	1.3 versicolor
## 89	5.6	3.0	4.1	1.3 versicolor
## 90	5.5	2.5	4.0	1.3 versicolor
## 91	5.5	2.6	4.4	1.2 versicolor
## 92	6.1	3.0	4.6	1.4 versicolor
## 93	5.8	2.6	4.0	1.2 versicolor
## 94	5.0	2.3	3.3	1.0 versicolor
## 95	5.6	2.7	4.2	1.3 versicolor
## 96	5.7	3.0	4.2	1.2 versicolor
## 97	5.7	2.9	4.2	1.3 versicolor
## 98	6.2	2.9	4.3	1.3 versicolor
## 99	5.1	2.5	3.0	1.1 versicolor
## 100	5.7	2.8	4.1	1.3 versicolor
## 101	6.3	3.3	6.0	2.5 virginica
## 102	5.8	2.7	5.1	1.9 virginica
## 103	7.1	3.0	5.9	2.1 virginica
## 104	6.3	2.9	5.6	1.8 virginica
## 105	6.5	3.0	5.8	2.2 virginica
## 106	7.6	3.0	6.6	2.1 virginica
## 107	4.9	2.5	4.5	1.7 virginica
## 108	7.3	2.9	6.3	1.8 virginica
## 109	6.7	2.5	5.8	1.8 virginica
## 110	7.2	3.6	6.1	2.5 virginica
## 111	6.5	3.2	5.1	2.0 virginica
## 112	6.4	2.7	5.3	1.9 virginica
## 113	6.8	3.0	5.5	2.1 virginica
## 114	5.7	2.5	5.0	2.0 virginica
## 115	5.8	2.8	5.1	2.4 virginica
## 116	6.4	3.2	5.3	2.3 virginica
## 117	6.5	3.0	5.5	1.8 virginica
## 118	7.7	3.8	6.7	2.2 virginica
## 119	7.7	2.6	6.9	2.3 virginica
## 120	6.0	2.2	5.0	1.5 virginica
## 121	6.9	3.2	5.7	2.3 virginica
## 122	5.6	2.8	4.9	2.0 virginica
## 123	7.7	2.8	6.7	2.0 virginica
## 124	6.3	2.7	4.9	1.8 virginica
## 125	6.7	3.3	5.7	2.1 virginica
## 126	7.2	3.2	6.0	1.8 virginica
## 127	6.2	2.8	4.8	1.8 virginica
## 128	6.1	3.0	4.9	1.8 virginica
## 129	6.4	2.8	5.6	2.1 virginica
## 130	7.2	3.0	5.8	1.6 virginica

```
## 131      7.4      2.8      6.1      1.9 virginica
## 132      7.9      3.8      6.4      2.0 virginica
## 133      6.4      2.8      5.6      2.2 virginica
## 134      6.3      2.8      5.1      1.5 virginica
## 135      6.1      2.6      5.6      1.4 virginica
## 136      7.7      3.0      6.1      2.3 virginica
## 137      6.3      3.4      5.6      2.4 virginica
## 138      6.4      3.1      5.5      1.8 virginica
## 139      6.0      3.0      4.8      1.8 virginica
## 140      6.9      3.1      5.4      2.1 virginica
## 141      6.7      3.1      5.6      2.4 virginica
## 142      6.9      3.1      5.1      2.3 virginica
## 143      5.8      2.7      5.1      1.9 virginica
## 144      6.8      3.2      5.9      2.3 virginica
## 145      6.7      3.3      5.7      2.5 virginica
## 146      6.7      3.0      5.2      2.3 virginica
## 147      6.3      2.5      5.0      1.9 virginica
## 148      6.5      3.0      5.2      2.0 virginica
## 149      6.2      3.4      5.4      2.3 virginica
## 150      5.9      3.0      5.1      1.8 virginica
```

```
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 0.2 0.4 0.3 0.2 0.2 0.1 ...
## $ Species      : Factor w/ 3 levels "setosa","versicolor",...: 1 1 1 1 1 1 1 1 1 1 ...
```

```
mean <- c(mean(iris$Sepal.Length), mean(iris$Sepal.Width), mean(iris$Petal.Length), mean(iris$Petal.Width))
```

```
mean
```

```
## [1] 5.843333 3.057333 3.758000 1.199333
```

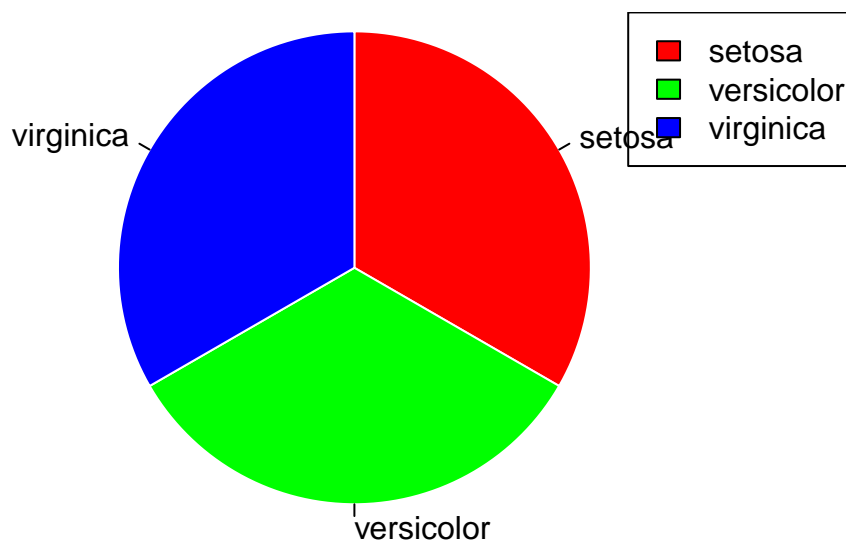
```
species_freq <- table(iris$Species)
```

```
pie(species_freq,
    main = "Species Distribution",
    labels = names(species_freq),
    col = rainbow(length(species_freq)),
    border = "white",
    radius = 1,
    clockwise = TRUE)

# Add legend
legend("topright",
    legend = names(species_freq),
    fill = rainbow(length(species_freq)))
```



## Species Distribution



```
data(iris)
```

```
setosa <- iris[iris$Species == "setosa", ]  
versicolor <- iris[iris$Species == "versicolor", ]  
virginica <- iris[iris$Species == "virginica", ]
```

```
tail(setosa)
```

##	Sepal.Length	Sepal.Width	Petal.Length	Petal.Width	Species
## 45	5.1	3.8	1.9	0.4	setosa
## 46	4.8	3.0	1.4	0.3	setosa
## 47	5.1	3.8	1.6	0.2	setosa
## 48	4.6	3.2	1.4	0.2	setosa
## 49	5.3	3.7	1.5	0.2	setosa
## 50	5.0	3.3	1.4	0.2	setosa

```
tail(versicolor)
```

##	Sepal.Length	Sepal.Width	Petal.Length	Petal.Width	Species
## 95	5.6	2.7	4.2	1.3	versicolor
## 96	5.7	3.0	4.2	1.2	versicolor
## 97	5.7	2.9	4.2	1.3	versicolor
## 98	6.2	2.9	4.3	1.3	versicolor
## 99	5.1	2.5	3.0	1.1	versicolor
## 100	5.7	2.8	4.1	1.3	versicolor

```
tail(virginica)
```

```
##      Sepal.Length Sepal.Width Petal.Length Petal.Width  Species
## 145          6.7         3.3         5.7         2.5 virginica
## 146          6.7         3.0         5.2         2.3 virginica
## 147          6.3         2.5         5.0         1.9 virginica
## 148          6.5         3.0         5.2         2.0 virginica
## 149          6.2         3.4         5.4         2.3 virginica
## 150          5.9         3.0         5.1         1.8 virginica
```

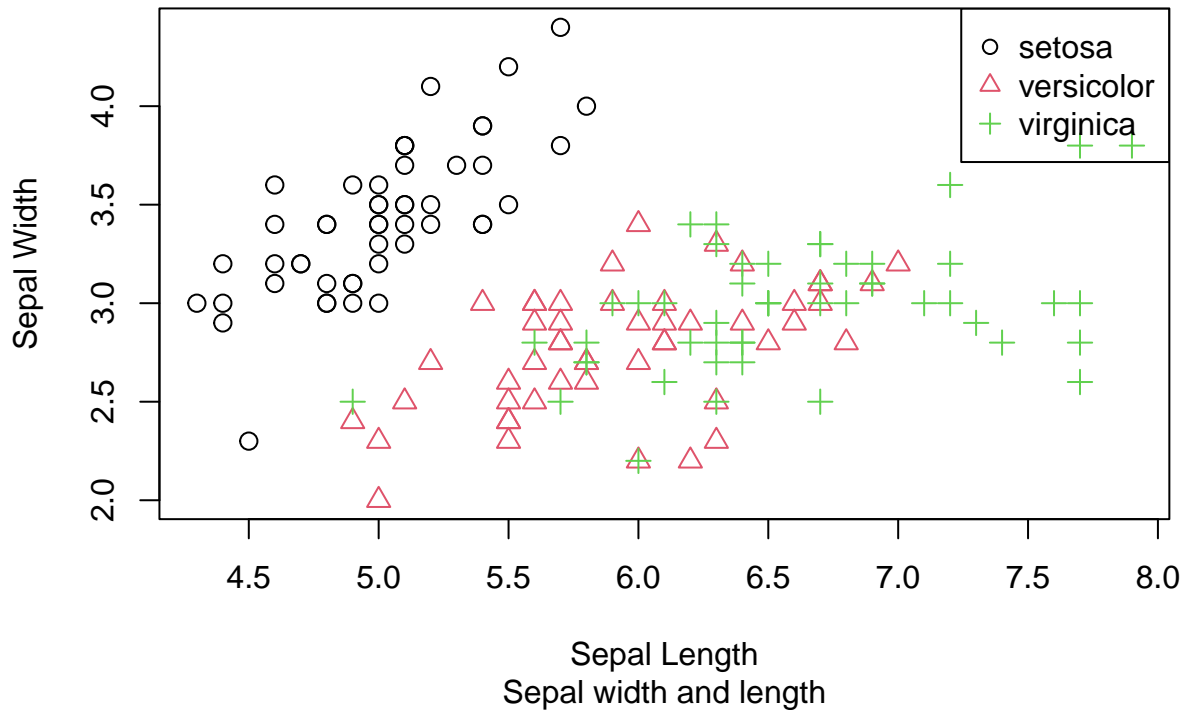
```
data(iris)
```

```
iris$Species <- factor(iris$Species)
```

```
plot(iris$Sepal.Length, iris$Sepal.Width,
     main = "Iris Dataset",
     sub = "Sepal width and length",
     xlab = "Sepal Length",
     ylab = "Sepal Width",
     pch = as.numeric(iris$Species),
     col = as.numeric(iris$Species),
     cex = 1.2
)
```

```
legend("topright",
      legend = levels(iris$Species),
      pch = 1:3,
      col = 1:3
)
```

## Iris Dataset



```
library(readxl)
alexa <- read_excel("C:/Users/victo/OneDrive/Desktop/R/RWorksheet4/alexa_file.xlsx")
alexa
```

```
## # A tibble: 3,150 x 5
##   rating date      variation      verified_reviews      feedback
##   <dbl> <dtm>      <chr>      <chr>      <dbl>
## 1     5 2018-07-31 00:00:00 Charcoal Fabric Love my Echo!         1
## 2     5 2018-07-31 00:00:00 Charcoal Fabric Loved it!             1
## 3     4 2018-07-31 00:00:00 Walnut Finish  Sometimes while play~ 1
## 4     5 2018-07-31 00:00:00 Charcoal Fabric I have had a lot of ~ 1
## 5     5 2018-07-31 00:00:00 Charcoal Fabric Music                 1
## 6     5 2018-07-31 00:00:00 Heather Gray Fabric I received the echo ~ 1
## 7     3 2018-07-31 00:00:00 Sandstone Fabric Without having a cel~ 1
## 8     5 2018-07-31 00:00:00 Charcoal Fabric I think this is the ~ 1
## 9     5 2018-07-30 00:00:00 Heather Gray Fabric looks great      1
## 10    5 2018-07-30 00:00:00 Heather Gray Fabric Love it! I've listen~ 1
## # i 3,140 more rows
```

```
alexa$variation <- gsub("Old Name", "New Name", alexa$variation)
alexa$variation
```

```
## [1] "Charcoal Fabric"      "Charcoal Fabric"
## [3] "Walnut Finish"        "Charcoal Fabric"
## [5] "Charcoal Fabric"      "Heather Gray Fabric"
```

##	[7]	"Sandstone Fabric"	"Charcoal Fabric"
##	[9]	"Heather Gray Fabric"	"Heather Gray Fabric"
##	[11]	"Charcoal Fabric"	"Charcoal Fabric"
##	[13]	"Oak Finish"	"Charcoal Fabric"
##	[15]	"Oak Finish"	"Heather Gray Fabric"
##	[17]	"Heather Gray Fabric"	"Heather Gray Fabric"
##	[19]	"Charcoal Fabric"	"Sandstone Fabric"
##	[21]	"Charcoal Fabric"	"Charcoal Fabric"
##	[23]	"Heather Gray Fabric"	"Charcoal Fabric"
##	[25]	"Sandstone Fabric"	"Sandstone Fabric"
##	[27]	"Charcoal Fabric"	"Charcoal Fabric"
##	[29]	"Charcoal Fabric"	"Charcoal Fabric"
##	[31]	"Sandstone Fabric"	"Charcoal Fabric"
##	[33]	"Sandstone Fabric"	"Heather Gray Fabric"
##	[35]	"Charcoal Fabric"	"Charcoal Fabric"
##	[37]	"Sandstone Fabric"	"Heather Gray Fabric"
##	[39]	"Charcoal Fabric"	"Heather Gray Fabric"
##	[41]	"Charcoal Fabric"	"Charcoal Fabric"
##	[43]	"Charcoal Fabric"	"Charcoal Fabric"
##	[45]	"Sandstone Fabric"	"Walnut Finish"
##	[47]	"Charcoal Fabric"	"Charcoal Fabric"
##	[49]	"Heather Gray Fabric"	"Charcoal Fabric"
##	[51]	"Charcoal Fabric"	"Charcoal Fabric"
##	[53]	"Charcoal Fabric"	"Charcoal Fabric"
##	[55]	"Sandstone Fabric"	"Charcoal Fabric"
##	[57]	"Charcoal Fabric"	"Charcoal Fabric"
##	[59]	"Oak Finish"	"Charcoal Fabric"
##	[61]	"Heather Gray Fabric"	"Charcoal Fabric"
##	[63]	"Heather Gray Fabric"	"Heather Gray Fabric"
##	[65]	"Charcoal Fabric"	"Charcoal Fabric"
##	[67]	"Charcoal Fabric"	"Charcoal Fabric"
##	[69]	"Charcoal Fabric"	"Sandstone Fabric"
##	[71]	"Charcoal Fabric"	"Charcoal Fabric"
##	[73]	"Heather Gray Fabric"	"Sandstone Fabric"
##	[75]	"Heather Gray Fabric"	"Charcoal Fabric"
##	[77]	"Heather Gray Fabric"	"Heather Gray Fabric"
##	[79]	"Charcoal Fabric"	"Charcoal Fabric"
##	[81]	"Heather Gray Fabric"	"Charcoal Fabric"
##	[83]	"Charcoal Fabric"	"Heather Gray Fabric"
##	[85]	"Charcoal Fabric"	"Heather Gray Fabric"
##	[87]	"Charcoal Fabric"	"Charcoal Fabric"
##	[89]	"Sandstone Fabric"	"Charcoal Fabric"
##	[91]	"Charcoal Fabric"	"Charcoal Fabric"
##	[93]	"Heather Gray Fabric"	"Charcoal Fabric"
##	[95]	"Charcoal Fabric"	"Charcoal Fabric"
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[illegible]



[illegible]

[illegible]

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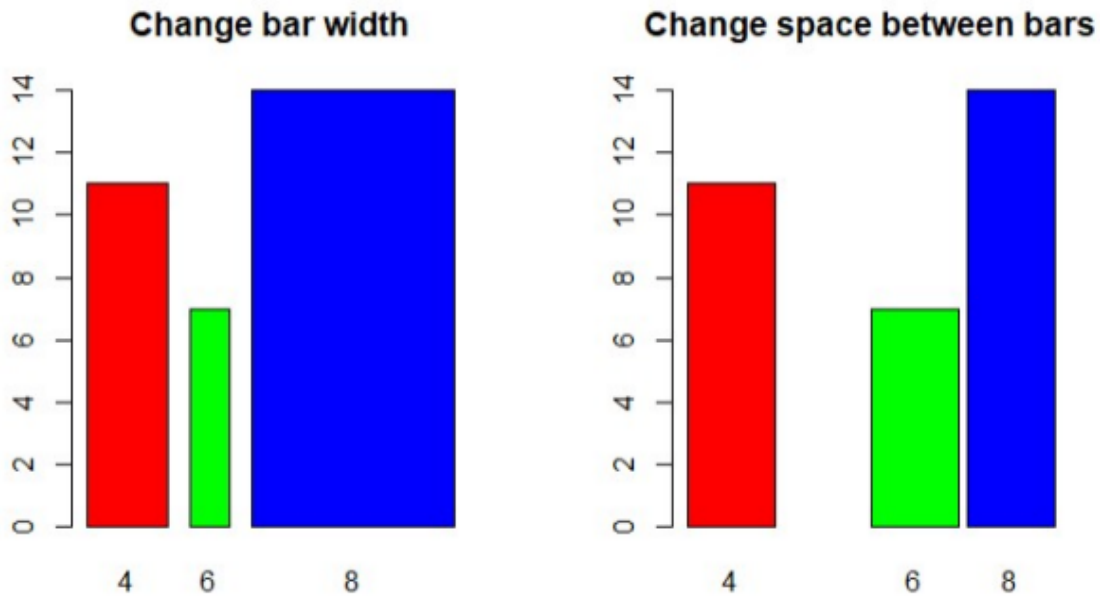
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```
## [3139] "White Dot"      "White Dot"
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## [3143] "White Dot"      "Black Dot"
## [3145] "Black Dot"      "Black Dot"
## [3147] "Black Dot"      "Black Dot"
## [3149] "White Dot"      "Black Dot"
```

```
knitr::include_graphics("C:/Users/victo/OneDrive/Desktop/R/RWorksheet4/Screenshot.jpg")
```



```
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
```

```
variationsC <- alexa %>%
  count(variation, name = "Total")

save(variationsC, file = "variations.RData")

print(variationsC)
```

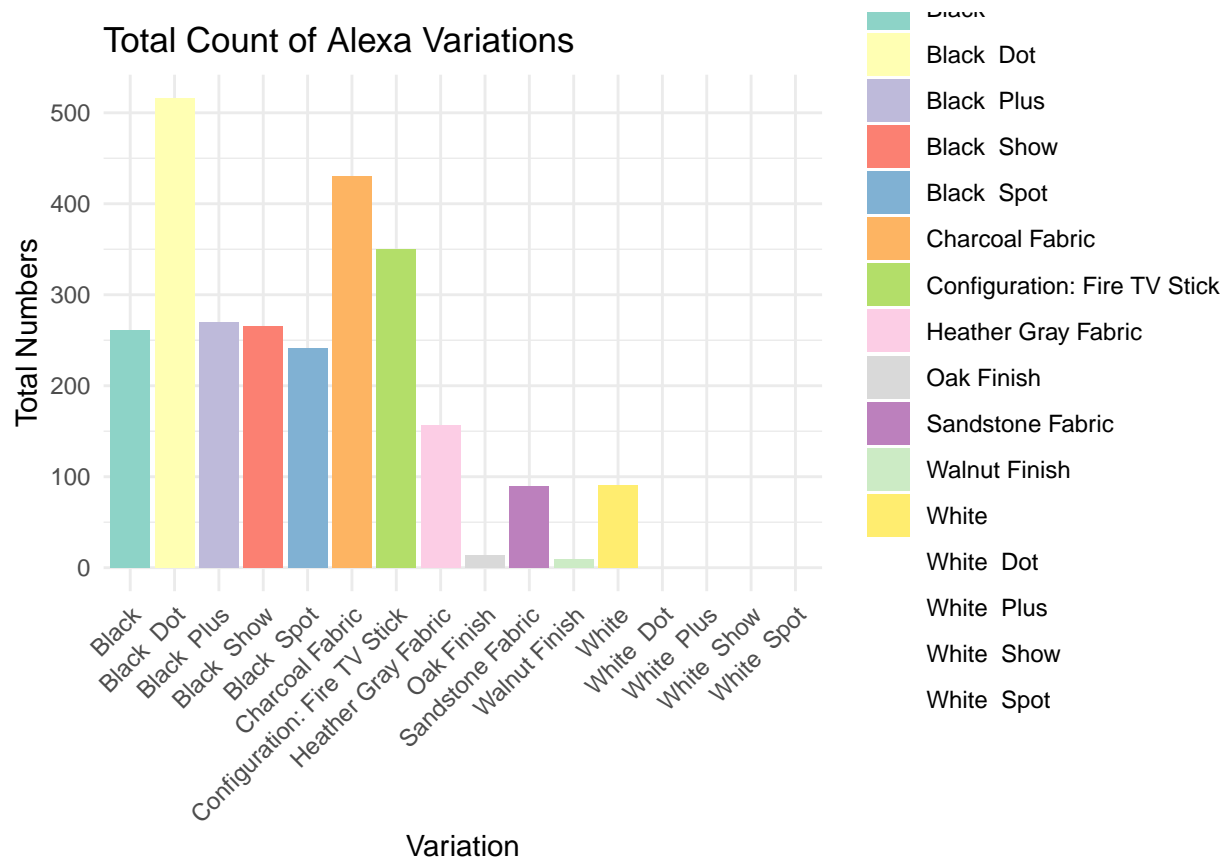
```
## # A tibble: 16 x 2
##   variation      Total
##   <chr>      <int>
## 1 Black      261
## 2 Black Dot  516
## 3 Black Plus 270
## 4 Black Show 265
## 5 Black Spot 241
## 6 Charcoal Fabric 430
## 7 Configuration: Fire TV Stick 350
## 8 Heather Gray Fabric 157
## 9 Oak Finish 14
## 10 Sandstone Fabric 90
## 11 Walnut Finish 9
## 12 White 91
## 13 White Dot 184
## 14 White Plus 78
## 15 White Show 85
## 16 White Spot 109
```

```
library(ggplot2)

load("variations.RData")

ggplot(variationsC, aes(x = variation, y = Total, fill = variation)) +
  geom_bar(stat = "identity") +
  ggtitle("Total Count of Alexa Variations") +
  xlab("Variation") +
  ylab("Total Numbers") +
  theme_minimal() +
  theme(axis.text.x = element_text(angle = 45, hjust = 1)) +
  scale_fill_brewer(palette = "Set3")
```

```
## Warning in RColorBrewer::brewer.pal(n, pal): n too large, allowed maximum for palette Set3 is 12
## Returning the palette you asked for with that many colors
```



```
variationsC$Category <- ifelse(grepl("Black", variationsC$variation), "Black Variants",
                                ifelse(grepl("White", variationsC$variation), "White Variants", NA))
```

```
BWvariants <- variationsC %>% filter(!is.na(Category))
```

```
ggplot(BWvariants, aes(x = variation, y = Total, fill = variation)) +
  geom_bar(stat = "identity") +
  facet_wrap(~ Category, scales = "free_x") +
  ggtitle("Counts of Alexa Black and White Variants") +
  xlab("Variation") +
  ylab("Total Numbers") +
  theme_minimal() +
  theme(axis.text.x = element_text(angle = 45, hjust = 1)) +
  scale_fill_brewer(palette = "Set2")
```

```
## Warning in RColorBrewer::brewer.pal(n, pal): n too large, allowed maximum for palette Set2 is 8
## Returning the palette you asked for with that many colors
```

