Untitled

2025-02-13

##		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		ersicolor
##	52	6.4	3.2	4.5		ersicolor
##	53	6.9	3.1	4.9	1.5 ve	ersicolor
##	54	5.5	2.3	4.0	1.3 ve	rsicolor
##	55	6.5	2.8	4.6	1.5 ve	ersicolor
##	56	5.7	2.8	4.5	1.3 ve	ersicolor
##	57	6.3	3.3	4.7	1.6 ve	ersicolor
##	58	4.9	2.4	3.3	1.0 ve	ersicolor
##	59	6.6	2.9	4.6	1.3 ve	ersicolor
##	60	5.2	2.7	3.9	1.4 ve	ersicolor
##	61	5.0	2.0	3.5	1.0 ve	ersicolor
##	62	5.9	3.0	4.2	1.5 ve	ersicolor
##	63	6.0	2.2	4.0	1.0 ve	ersicolor
##	64	6.1	2.9	4.7	1.4 ve	ersicolor
##	65	5.6	2.9	3.6	1.3 ve	ersicolor
##	66	6.7	3.1	4.4	1.4 ve	ersicolor
##	67	5.6	3.0	4.5	1.5 ve	ersicolor
##	68	5.8	2.7	4.1	1.0 ve	ersicolor
##	69	6.2	2.2	4.5	1.5 ve	ersicolor
##	70	5.6	2.5	3.9		ersicolor
##	71	5.9	3.2	4.8		ersicolor
##	72	6.1	2.8	4.0		ersicolor
##	73	6.3	2.5	4.9		ersicolor
##	74	6.1	2.8	4.7		ersicolor
##		6.4	2.9	4.3		ersicolor
	76	6.6	3.0	4.4		ersicolor
	77	6.8	2.8	4.8		ersicolor
	78	6.7	3.0	5.0		ersicolor
	79	6.0	2.9	4.5		ersicolor
	80	5.7	2.6	3.5		ersicolor
	81	5.5	2.4	3.8		ersicolor
	82 83	5.5	2.4 2.7	3.7		ersicolor ersicolor
	84	5.8		3.9		rsicolor
	85	6.0 5.4	2.7 3.0	5.1 4.5		ersicolor
	86	6.0	3.4	4.5		rsicolor
	87	6.7	3.1	4.7		rsicolor
	88	6.3	2.3	4.4		rsicolor
	89	5.6	3.0	4.1		rsicolor
##		5.5	2.5	4.0		rsicolor
##		5.5	2.6	4.4		rsicolor
##		6.1	3.0	4.6		ersicolor

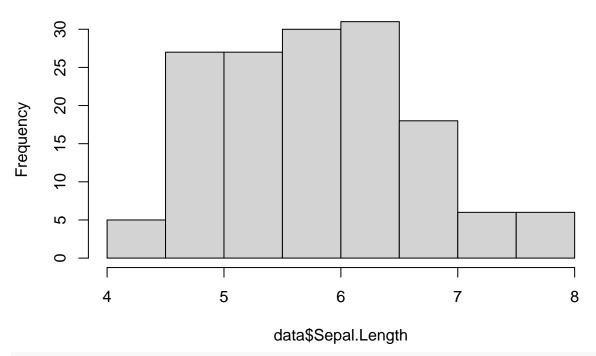
## 93	5.8	2.6	4.0	1.2 versicolor
## 94	5.0	2.3	3.3	1.0 versicolor
## 95	5.6	2.7	4.2	1.3 versicolor
## 96	5.7	3.0	4.2	1.2 versicolor
## 97	5.7	2.9	4.2	1.3 versicolor
## 98	6.2	2.9	4.3	1.3 versicolor
## 99	5.1	2.5	3.0	1.1 versicolor
## 100	5.7	2.8	4.1	1.3 versicolor
## 101	6.3	3.3	6.0	2.5 virginica
## 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 ## 128	6.2 6.1	2.8	4.8 4.9	1.8 virginica
## 128 ## 129	6.4	3.0 2.8		1.8 virginica
## 129 ## 130	7.2	3.0	5.6 5.8	2.1 virginica
## 130 ## 131	7.4	2.8	6.1	1.6 virginica 1.9 virginica
## 131 ## 132	7.4	3.8	6.4	1.9 virginica 2.0 virginica
## 132	6.4	2.8	5.6	2.0 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
				3

```
## 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
```

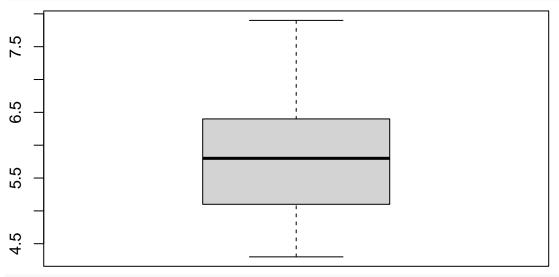
##NUMERICAL

hist(data\$Sepal.Length)

Histogram of data\$Sepal.Length



boxplot(data\$Sepal.Length)



table(data\$Sepal.Length)

##

```
## 4.3 4.4 4.5 4.6 4.7 4.8 4.9 5 5.1 5.2 5.3 5.4 5.5 5.6 5.7 5.8 5.9
   1 3 1 4 2 5
                                     4
                                             6 7
                                                     6
                           6 10 9
                                          1
                                                        8
                                                           7 3
                                                                    6 6 4
## 6.3 6.4 6.5 6.6 6.7 6.8 6.9
                              7 7.1 7.2 7.3 7.4 7.6 7.7 7.9
       7
            5
               2
                       3
                                  1
                                      3
                                          1
                                             1
summary(data$Sepal.Length)
##
     Min. 1st Qu. Median
                           Mean 3rd Qu.
                                           Max.
##
    4.300
          5.100
                   5.800
                           5.843
                                  6.400
                                          7.900
##CATEGORICAL
table(data$Species)
##
##
      setosa versicolor virginica
barplot(table(data$Species))
50
40
30
20
10
                                                        virginica
             setosa
                                  versicolor
pie(table(data$Species))
                              setosa
versicolor
                              virginica
```

class(data[,1])

```
## [1] "numeric"

for ( i in 1:5){
    if(is.numeric(data[,i])){
        hist(data[,i])

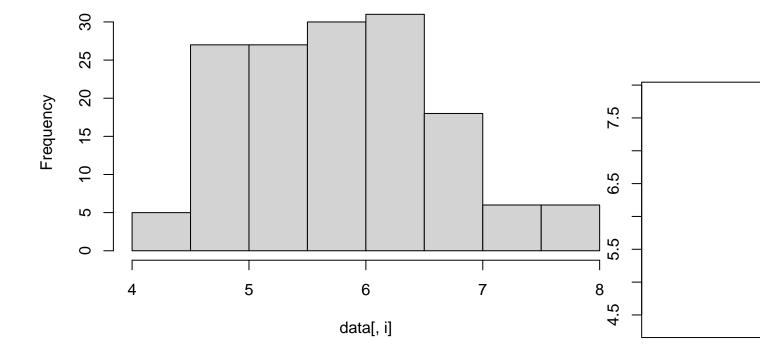
boxplot(data[,i])

table(data[,i])

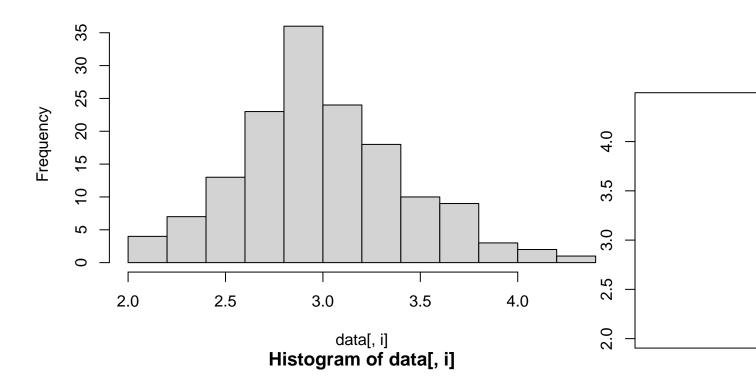
summary(data[,i])
} else{
    table(data[,i])

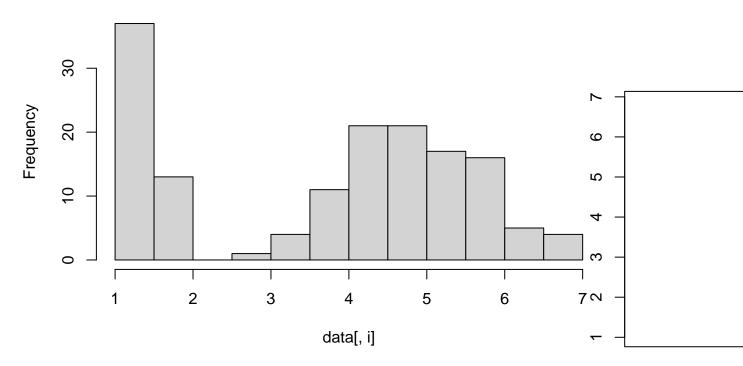
barplot(table(data[,i]))
pie(table(data[,i]))
}
}
```

Histogram of data[, i]



Histogram of data[, i]





Histogram of data[, i]

