Moscas Manova

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Moscas

Pacotes

```
source("funcoes.R")
pacotes <- c("ggplot2",</pre>
             "magrittr",
             "gridExtra",
             "xtable",
             "dplyr",
             "purrr",
             "tidyr")
ipak(pacotes)
## Loading required package: ggplot2
## Loading required package: magrittr
## Loading required package: gridExtra
## Loading required package: xtable
## Loading required package: dplyr
##
## Attaching package: 'dplyr'
## The following object is masked from 'package:gridExtra':
##
##
       combine
## The following objects are masked from 'package:stats':
##
##
       filter, lag
## The following objects are masked from 'package:base':
##
##
       intersect, setdiff, setequal, union
## Loading required package: purrr
##
## Attaching package: 'purrr'
## The following objects are masked from 'package:dplyr':
##
##
       contains, order_by
## The following object is masked from 'package:magrittr':
##
##
       set_names
```

```
## Loading required package: tidyr
##
## Attaching package: 'tidyr'
## The following object is masked from 'package:magrittr':
##
##
       extract
##
     ggplot2 magrittr gridExtra
                                    xtable
                                                dplyr
                                                          purrr
                                                                    tidyr
                                      TRUE
                                                 TRUE
                                                           TRUE
                                                                     TRUE
##
        TRUE
                  TRUE
                            TRUE
options(xtable.comment = FALSE)
```

Lendo Os Dados

```
dados <- read.table("Dados/Moscas.txt")</pre>
nomes_COl <- c("Especie" = "Especie",</pre>
                                                           "CompAsa" = "Comprimento da asa",
                                                            "LargAsa" = "Largura da asa",
                                                           "Comp3Palpo" = "Comprimento do terceiro palpo",
                                                           "Larg3Palpo" = "Largura do terceiro palpo",
                                                           "Comp4Palpo" = "Comprimento do quarto palpo",
                                                           "Comp12Antena" =
                                               "Comprimento do 12º segmento\n da antena",
                                                   "Comp13Antena" = "Comprimento do 13ºsegmento\n da antena")
colnames(dados) <- c("Especie", "CompAsa", "LargAsa", "Comp3Palpo",</pre>
                                                                                                                                                                                                                                                                                                                          "Larg3Palpo", "Comp4Palpo", "C
Especie_chr <- function(x){</pre>
        if (x == 0)
                y <- "torrens"
        else
                y <- "carteri"
dados %<>% mutate( Especie_fct =
                                                                                    factor(map_chr(Especie,Especie_chr)))
```

Analise Descritiva

Medidas Descritivas

	Especie	Media	DP	Var.	Minimo	CV	Mediana	Maximo
1	torrens	9.57	0.92	0.84	8.00	9.58	9.00	13.00
2	carteri	9.66	1.26	1.58	6.00	13.04	10.00	12.00

Table 1: Comprimento do 12^{o} segmento da antena

	Especie	Media	DP	Var.	Minimo	CV	Mediana	Maximo
1	torrens	9.71	0.89	0.80	8.00	9.20	10.00	13.00
2	carteri	9.37	1.09	1.18	7.00	11.60	9.00	11.00

Table 2: Comprimento do $13^{\rm o}{\rm segmento}$ da antena

	Especie	Media	DP	Var.	Minimo	CV	Mediana	Maximo
1	torrens	35.37	2.20	4.83	31.00	6.21	36.00	39.00
2	carteri	39.31	2.84	8.04	33.00	7.21	39.00	44.00

Table 3: Comprimento do terceiro palpo

-	Especie	Media	DP	Var.	Minimo	CV	Mediana	Maximo
1	torrens	25.63	2.50	6.24	21.00	9.75	26.00	31.00
2	carteri	30.00	4.62	21.29	20.00	15.38	31.00	38.00

Table 4: Comprimento do quarto palpo

	Especie	Media	DP	Var.	Minimo	CV	Mediana	Maximo
1	torrens	96.46	6.38	40.73	85.00	6.62	95.00	109.00
2	carteri	99.34	5.59	31.29	82.00	5.63	99.00	112.00

Table 5: Comprimento da asa

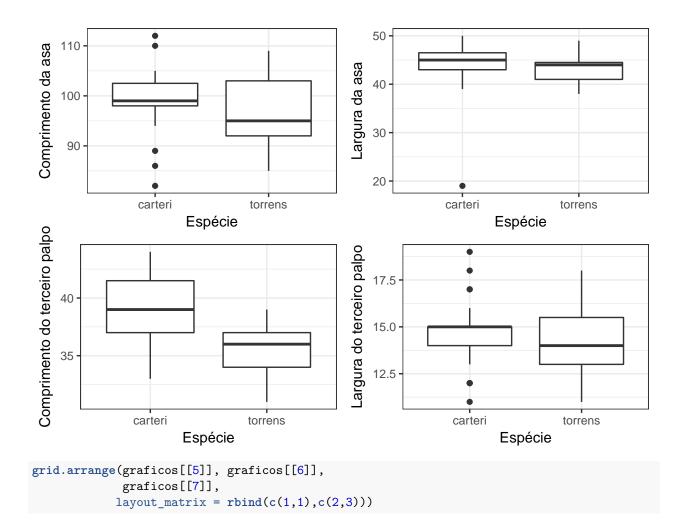
Boxplots

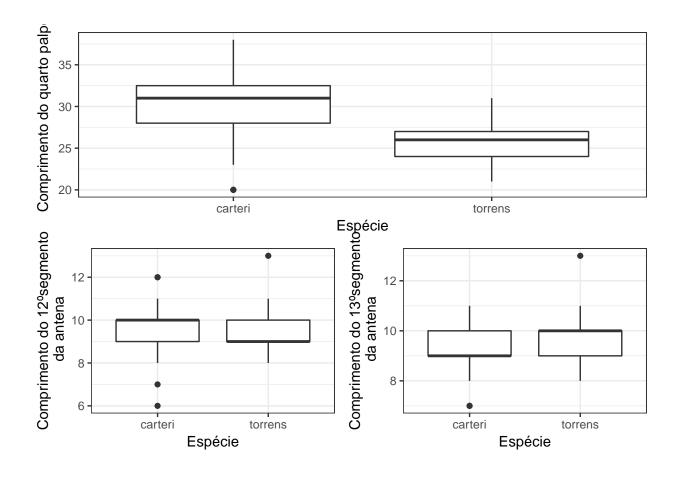
	Especie	Media	DP	Var.	Minimo	CV	Mediana	Maximo
1	torrens	14.51	1.84	3.38	11.00	12.66	14.00	18.00
2	carteri	14.66	1.64	2.70	11.00	11.22	15.00	19.00

Table 6: Largura do terceiro palpo

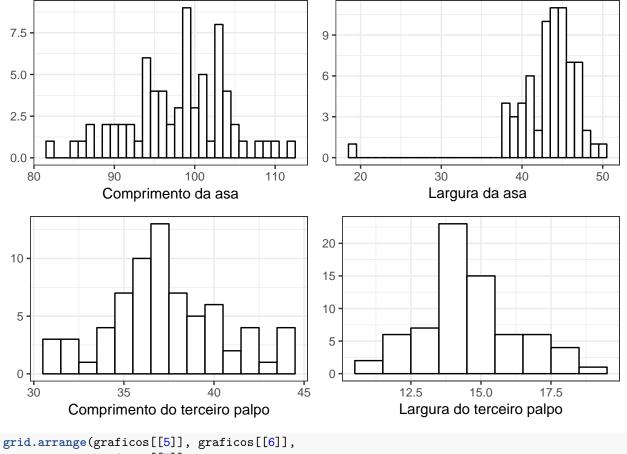
	Especie	Media	DP	Var.	Minimo	CV	Mediana	Maximo
1	torrens	42.91	2.74	7.49	38.00	6.38	44.00	49.00
2	carteri	43.74	5.08	25.79	19.00	11.61	45.00	50.00

Table 7: Largura da asa





Histograma



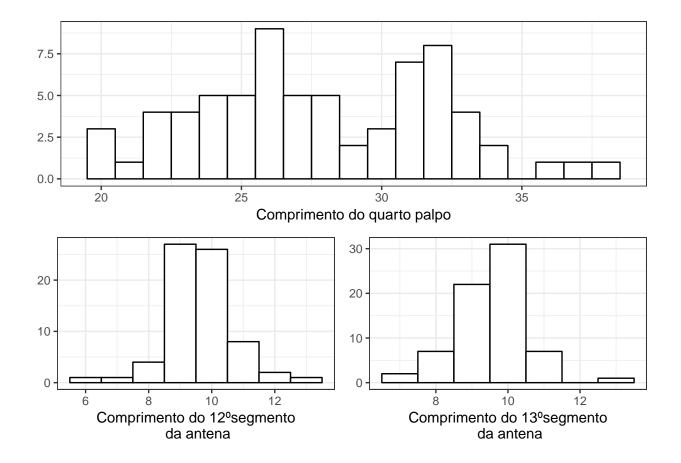
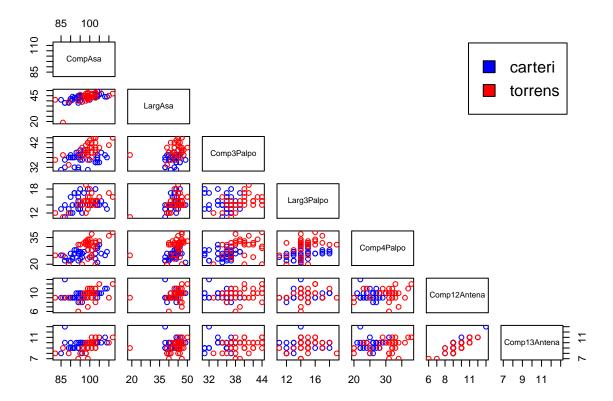


Diagrama Dispersao



Distancia de Mahalanobis