# Moscas Manova

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## Moscas

### **Pacotes**

```
source("funcoes.R")
pacotes <- c("tidyverse",</pre>
            "magrittr",
            "gridExtra",
            "xtable")
ipak(pacotes)
## Loading required package: tidyverse
## Loading tidyverse: ggplot2
## Loading tidyverse: tibble
## Loading tidyverse: tidyr
## Loading tidyverse: readr
## Loading tidyverse: purrr
## Loading tidyverse: dplyr
## Conflicts with tidy packages ------
## filter(): dplyr, stats
## lag():
            dplyr, stats
## Loading required package: magrittr
##
## Attaching package: 'magrittr'
## The following object is masked from 'package:purrr':
##
##
      set_names
## The following object is masked from 'package:tidyr':
##
##
      extract
## Loading required package: gridExtra
##
## Attaching package: 'gridExtra'
## The following object is masked from 'package:dplyr':
##
##
      combine
## Loading required package: xtable
## tidyverse magrittr gridExtra
                                   xtable
##
       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 12º 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 13º<br/>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

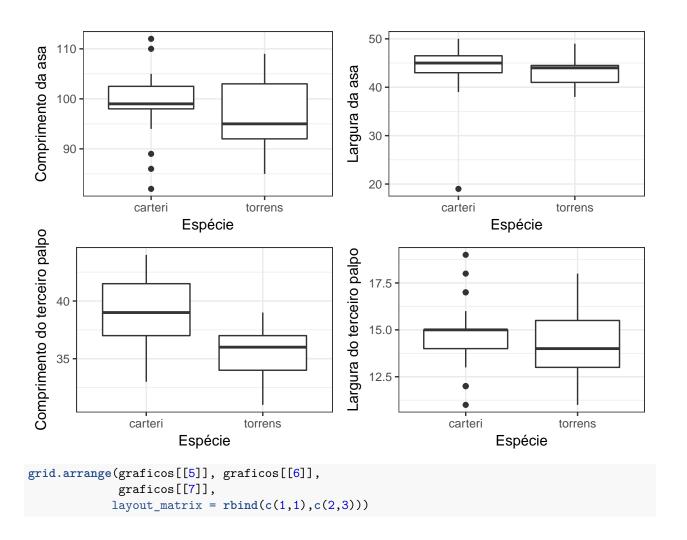
## **Boxplots**

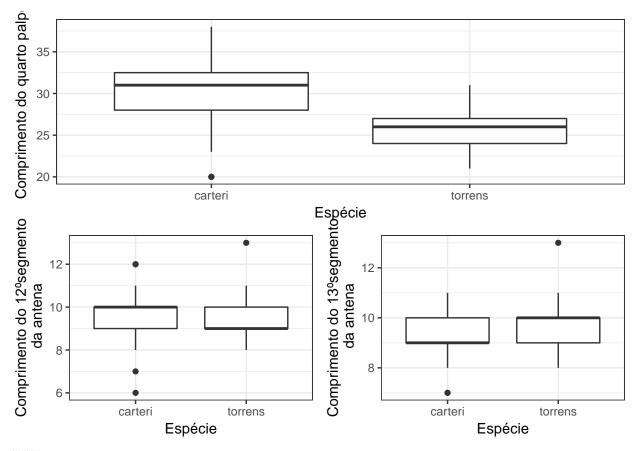
	Especie	Media	DP	Var.	Minimo	CV	Mediana	Maximo
1	torrens	14.51	1.84	3.38	11.00	12.66	14.00	18.00
2	carteri	14.66	1.64	2.70	11.00	11.22	15.00	19.00

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

## `stat\_bin()` using `bins = 30`. Pick better value with `binwidth`.
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