



TRABALHO - PARTE 1

RELATÓRIO - QUESTÃO 2

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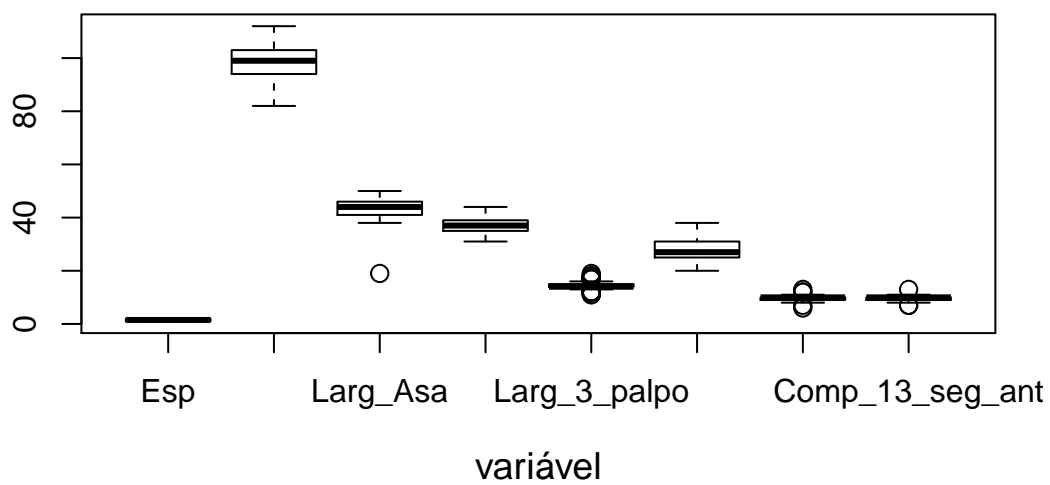
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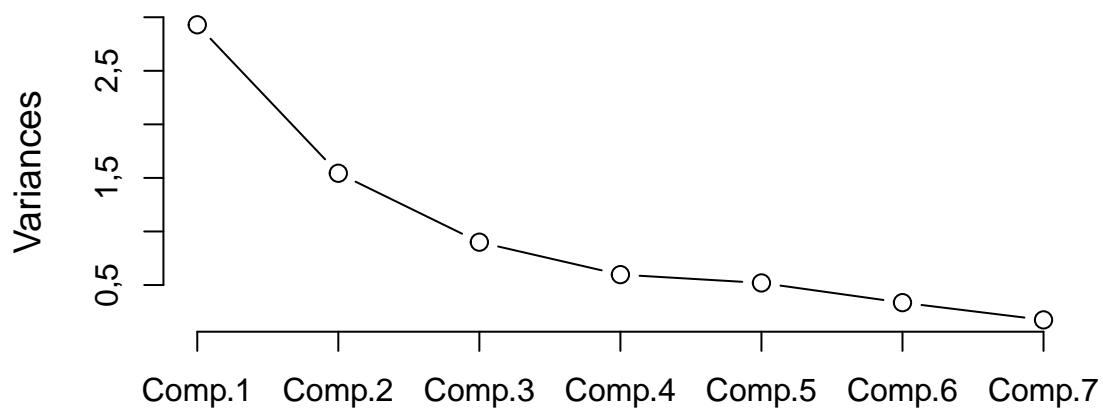
Disciplina: **ME731 - Análise Multivariada**
Professor: **Caio Lucidius Naberezny Azevedo**

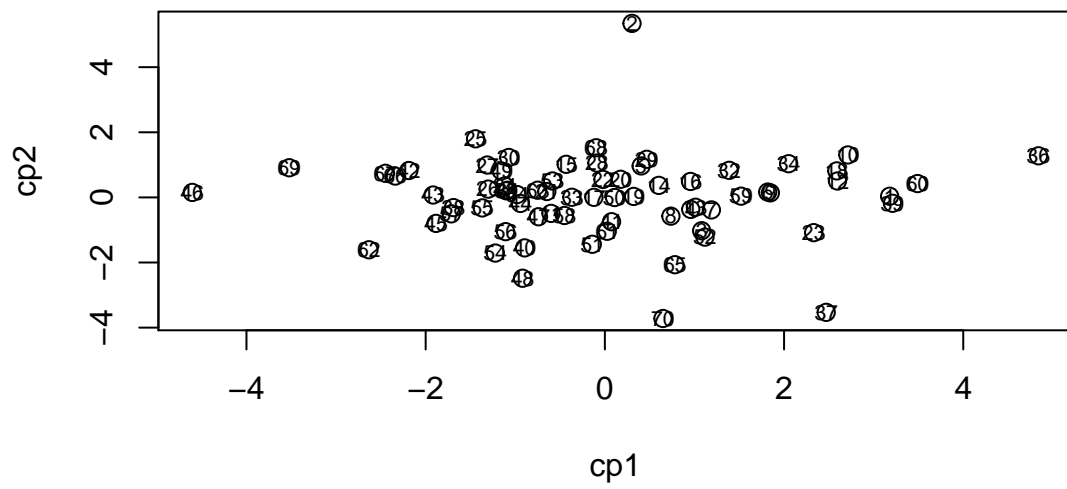
Campinas - SP
18 de Novembro de 2017

```
##   ggplot2   knitr    dplyr tidyverse   xtable gridExtra devtools
##   TRUE     TRUE     TRUE    TRUE      TRUE    TRUE      TRUE
## magrittr   tidyr tidyverse
##   TRUE     TRUE     TRUE
```



autovalores





1. Introdução

2. Análise descritiva

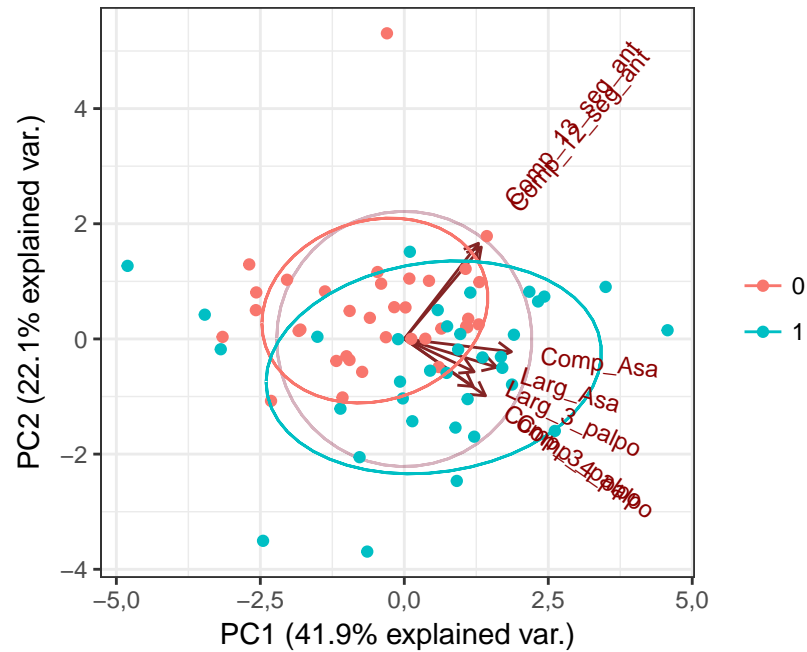
```
## % latex table generated in R 3.4.2 by xtable 1.8-2 package
## % Wed Nov 08 19:05:43 2017
## \begin{table}[ht]
## \centering
## \begin{tabular}{rrrrrrrr}
## \hline
## & Comp\_Asa & Larg\_Asa & Comp\_3\_palpo & Larg\_3\_palpo & Comp\_4\_palpo & Comp\_12\_seg\_ant & Comp\_13\_seg\_ant \\
## \hline
## Média & 97,90 & 43,33 & 37,34 & 14,59 & 27,81 & 9,61 & 9,54 \\
## Var. & 37,60 & 16,57 & 10,29 & 3,00 & 18,41 & 1,20 & 1,00 \\
## DP & 6,13 & 4,07 & 3,21 & 1,73 & 4,29 & 1,09 & 1,00 \\
## CV(\%) & 6,26 & 9,39 & 8,59 & 11,88 & 15,43 & 11,38 & 10,51 \\
## Mínimo & 82,00 & 19,00 & 31,00 & 11,00 & 20,00 & 6,00 & 7,00 \\
## Mediana & 99,00 & 44,00 & 37,00 & 14,00 & 27,00 & 10,00 & 10,00 \\
## Máximo & 112,00 & 50,00 & 44,00 & 19,00 & 38,00 & 13,00 & 13,00 \\
## \hline
## \end{tabular}
## \end{table}

## $stats
##      [,1] [,2] [,3] [,4] [,5] [,6] [,7] [,8]
## [1,]  1,0  82  38  31  13  20   8   8
## [2,]  1,0  94  41  35  14  25   9   9
## [3,]  1,5  99  44  37  14  27  10  10
## [4,]  2,0 103  46  39  15  31  10  10
## [5,]  2,0 112  50  44  16  38  11  11
##
## $n
## [1] 70 70 70 70 70 70 70 70
##
## $conf
##      [,1]      [,2]      [,3]      [,4]      [,5]      [,6]      [,7]
## [1,] 1,311154 97,30038 43,05577 36,24462 13,81115 25,86692 9,811154
## [2,] 1,688846 100,69962 44,94423 37,75538 14,18885 28,13308 10,188846
##      [,8]
## [1,] 9,811154
## [2,] 10,188846
##
## $out
## [1] 19 17 12 17 11 17 17 18 18 12 18 12 11 12 18 19 12 17 12 17 13 6 12
## [24] 12 7 13 7 7
##
## $group
## [1] 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 7 7 7 7 8 8 8
##
## $names
## [1] "Esp" "Comp_Asa" "Larg_Asa" "Comp_3_palpo"
## [5] "Larg_3_palpo" "Comp_4_palpo" "Comp_12_seg_ant" "Comp_13_seg_ant"
```

3. Análise Inferencial

```
## Importance of components:
##           Comp.1    Comp.2    Comp.3    Comp.4    Comp.5
## Standard deviation 1,7116366 1,2424549 0,9487536 0,77266752 0,72078630
## Proportion of Variance 0,4185286 0,2205277 0,1285905 0,08528787 0,07421898
## Cumulative Proportion 0,4185286 0,6390563 0,7676468 0,85293466 0,92715364
##           Comp.6    Comp.7
## Standard deviation 0,5792105 0,41765975
## Proportion of Variance 0,0479264 0,02491995
## Cumulative Proportion 0,9750800 1,00000000

## NULL
## NULL
```



4. Conclusões

5. Bibliografia