

report1stSteps

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Introduction

```
orinaFlav <- preprocessTablas("data/", "tablaOrinaFlav.csv")
```

```
## Warning: `mutate_each()` was deprecated in dplyr 0.7.0.  
## Please use `across()` instead.  
## This warning is displayed once every 8 hours.  
## Call `lifecycle::last_lifecycle_warnings()` to see where this warning was generated.
```

```
orinaAnt <- preprocessTablas("data/", "tablaorinaAnt.csv")  
plasmaAnt <- preprocessTablas("data/", "tablaplasmaAnt.csv")  
plasmaFlav <- preprocessTablas("data/", "tablaplasmaFlav.csv")  
plasmaFlav_adjusted <- preprocessTablas("data/", "tablaplasmaFlav_adjusted.csv")
```

```
summary(orinaFlav$tablaFactors)
```

```
##           EG           ES           HE.G           NG  
## Min.      :0.000000   Min.      :0.0000   Min.      :0.000000   Min.      :0.00000  
## 1st Qu.:0.005557   1st Qu.:0.0638   1st Qu.:0.003277   1st Qu.:0.04540  
## Median :0.015645   Median :0.1036   Median :0.013989   Median :0.09873  
## Mean    :0.036888   Mean    :0.1584   Mean    :0.075872   Mean    :0.15459  
## 3rd Qu.:0.043685   3rd Qu.:0.1928   3rd Qu.:0.054270   3rd Qu.:0.21474  
## Max.    :1.000000   Max.    :1.0000   Max.    :1.000000   Max.    :1.00000  
##  
##           NS           Peso           IMC           Grasa  
## Min.      :0.00000   Min.      :0.0000   Min.      :0.0000   Min.      :0.0000  
## 1st Qu.:0.02833   1st Qu.:0.3340   1st Qu.:0.2677   1st Qu.:0.2994  
## Median :0.05812   Median :0.4660   Median :0.3937   Median :0.4241  
## Mean    :0.09892   Mean    :0.5004   Mean    :0.4297   Mean    :0.4699  
## 3rd Qu.:0.11170   3rd Qu.:0.6680   3rd Qu.:0.5630   3rd Qu.:0.6662  
## Max.    :1.00000   Max.    :1.0000   Max.    :1.0000   Max.    :1.0000  
##  
##           IRCV           Bpmin           Bpmax           Frec           Endulzante  
## Min.      :0.0000   Min.      :0.0000   Min.      :0.0000   Min.      :0.0000   SA:69  
## 1st Qu.:0.2143   1st Qu.:0.2687   1st Qu.:0.4167   1st Qu.:0.3220   ST:62  
## Median :0.3571   Median :0.3433   Median :0.5119   Median :0.4746   SU:68  
## Mean    :0.4020   Mean    :0.3604   Mean    :0.5430   Mean    :0.4751  
## 3rd Qu.:0.5714   3rd Qu.:0.4403   3rd Qu.:0.6607   3rd Qu.:0.6356  
## Max.    :1.0000   Max.    :1.0000   Max.    :1.0000   Max.    :1.0000  
##  
##           Tiempo           Sexo           numVol  
## 0      : 95   HOMBRE:122   1      : 2
```

```
## Final:104  MUJER : 77  3      : 2
##                               9      : 2
##                               10     : 2
##                               14     : 2
##                               15     : 2
##                               (Other):187
```

```
summary(orinaAnt$tablaFactors)
```

```
##      CA.Gluc      DHPAA.Gluc      TFA.Gluc      TFA.Sulfate
## Min.   :0.00000 Min.   :0.00000 Min.   :0.00000 Min.   :0.00000
## 1st Qu.:0.01571 1st Qu.:0.05709 1st Qu.:0.004783 1st Qu.:0.04497
## Median :0.03387 Median :0.10861 Median :0.008722 Median :0.08941
## Mean   :0.07191 Mean   :0.17349 Mean   :0.020699 Mean   :0.13883
## 3rd Qu.:0.08704 3rd Qu.:0.21529 3rd Qu.:0.018293 3rd Qu.:0.17052
## Max.   :1.00000 Max.   :1.00000 Max.   :1.00000 Max.   :1.00000
##
##  Ácido.Vanílico..VA.      Peso      IMC      Grasa
## Min.   :0.00000 Min.   :0.0000 Min.   :0.0000 Min.   :0.0000
## 1st Qu.:0.01243 1st Qu.:0.3291 1st Qu.:0.3008 1st Qu.:0.3009
## Median :0.02502 Median :0.4767 Median :0.4135 Median :0.4226
## Mean   :0.05398 Mean   :0.4988 Mean   :0.4494 Mean   :0.4658
## 3rd Qu.:0.05606 3rd Qu.:0.6709 3rd Qu.:0.5771 3rd Qu.:0.6612
## Max.   :1.00000 Max.   :1.0000 Max.   :1.0000 Max.   :1.0000
##
##      IRCV      Bpmin      Bpmax      Frec      Endulzante
## Min.   :0.0000 Min.   :0.0000 Min.   :0.0000 Min.   :0.0000 SA:71
## 1st Qu.:0.2000 1st Qu.:0.2537 1st Qu.:0.4196 1st Qu.:0.3220 ST:70
## Median :0.3333 Median :0.3433 Median :0.5119 Median :0.4576 SU:73
## Mean   :0.3757 Mean   :0.3595 Mean   :0.5451 Mean   :0.4701
## 3rd Qu.:0.5333 3rd Qu.:0.4478 3rd Qu.:0.6667 3rd Qu.:0.6271
## Max.   :1.0000 Max.   :1.0000 Max.   :1.0000 Max.   :1.0000
##
##      Tiempo      Sexo      numVol
## 0      :106  HOMBRE:132  2      : 2
## Final:108  MUJER : 82  3      : 2
##                               8      : 2
##                               9      : 2
##                               10     : 2
##                               14     : 2
##                               (Other):202
```

```
summary(plasmaAnt$tablaFactors)
```

```
##  Ácido.Caféico..CA.      CA.Gluc      X3.4.Ácido.Dihidroxifenilacético..DHPAA.
## Min.   :0.0000 Min.   :0.00000 Min.   :0.0000
## 1st Qu.:0.1578 1st Qu.:0.02624 1st Qu.:0.1601
## Median :0.2478 Median :0.05599 Median :0.2754
## Mean   :0.2898 Mean   :0.08230 Mean   :0.3057
## 3rd Qu.:0.4024 3rd Qu.:0.09816 3rd Qu.:0.3994
## Max.   :1.0000 Max.   :1.00000 Max.   :1.0000
##
##      DHPAA.Gluc      VA.GG      VA.Gluc.sulfate      Peso
## Min.   :0.00000 Min.   :0.00000 Min.   :0.0000 Min.   :0.0000
## 1st Qu.:0.07792 1st Qu.:0.06765 1st Qu.:0.1685 1st Qu.:0.3301
```

```
## Median :0.13554 Median :0.11310 Median :0.2892 Median :0.4641
## Mean :0.17823 Mean :0.15630 Mean :0.3272 Mean :0.4862
## 3rd Qu.:0.22152 3rd Qu.:0.20151 3rd Qu.:0.4476 3rd Qu.:0.6447
## Max. :1.00000 Max. :1.00000 Max. :1.0000 Max. :1.0000
##
## IMC Grasa IRCV Bpmin
## Min. :0.0000 Min. :0.0000 Min. :0.0000 Min. :0.0000
## 1st Qu.:0.2782 1st Qu.:0.3017 1st Qu.:0.2000 1st Qu.:0.2537
## Median :0.3985 Median :0.4257 Median :0.3333 Median :0.3284
## Mean :0.4263 Mean :0.4714 Mean :0.3518 Mean :0.3502
## 3rd Qu.:0.5338 3rd Qu.:0.6822 3rd Qu.:0.4667 3rd Qu.:0.4328
## Max. :1.0000 Max. :1.0000 Max. :1.0000 Max. :1.0000
##
## Bpmax Frec Endulzante Tiempo Sexo
## Min. :0.0000 Min. :0.0000 SA:61 0 : 93 HOMBRE:119
## 1st Qu.:0.4259 1st Qu.:0.3220 ST:73 Final:106 MUJER : 80
## Median :0.5309 Median :0.4576 SU:65
## Mean :0.5595 Mean :0.4618
## 3rd Qu.:0.6852 3rd Qu.:0.6271
## Max. :1.0000 Max. :1.0000
##
## numVol
## 1 : 2
## 3 : 2
## 5 : 2
## 6 : 2
## 7 : 2
## 8 : 2
## (Other):187
```

```
summary(plasmaFlav$tablaFactors)
```

```
## Peso IMC Grasa IRCV
## Min. :0.0000 Min. :0.0000 Min. :0.0000 Min. :0.0000
## 1st Qu.:0.2903 1st Qu.:0.3912 1st Qu.:0.3009 1st Qu.:0.2000
## Median :0.4253 Median :0.4935 Median :0.4198 Median :0.3333
## Mean :0.4375 Mean :0.5230 Mean :0.4636 Mean :0.3813
## 3rd Qu.:0.5828 3rd Qu.:0.6364 3rd Qu.:0.6547 3rd Qu.:0.5333
## Max. :1.0000 Max. :1.0000 Max. :1.0000 Max. :1.0000
##
## Bpmin Bpmax Frec Endulzante Tiempo
## Min. :0.0000 Min. :0.0000 Min. :0.0000 SA:78 0 :121
## 1st Qu.:0.2537 1st Qu.:0.4196 1st Qu.:0.3220 ST:84 Final:121
## Median :0.3433 Median :0.5179 Median :0.4746 SU:80
## Mean :0.3587 Mean :0.5462 Mean :0.4763
## 3rd Qu.:0.4478 3rd Qu.:0.6667 3rd Qu.:0.6271
## Max. :1.0000 Max. :1.0000 Max. :1.0000
##
## Sexo numVol
## HOMBRE:152 1 : 2
## MUJER : 90 2 : 2
## 3 : 2
## 5 : 2
## 6 : 2
## 7 : 2
```

```
## (Other):230
```

```
summary(plasmaFlav_adjusted$tablaFactors)
```

```
## Eriodictiol..E.      ES      Peso      IMC
## Min.   :0.0000  Min.   :0.0000  Min.   :0.0000  Min.   :0.0000
## 1st Qu.:0.2500  1st Qu.:0.0000  1st Qu.:0.3267  1st Qu.:0.2560
## Median :0.3750  Median :0.1000  Median :0.4602  Median :0.3680
## Mean   :0.3725  Mean   :0.1239  Mean   :0.4868  Mean   :0.3933
## 3rd Qu.:0.5000  3rd Qu.:0.2000  3rd Qu.:0.6432  3rd Qu.:0.5180
## Max.   :1.0000  Max.   :1.0000  Max.   :1.0000  Max.   :1.0000
##
##      Grasa      IRCV      Bpmin      Bpmax
## Min.   :0.0000  Min.   :0.0000  Min.   :0.0000  Min.   :0.0000
## 1st Qu.:0.2822  1st Qu.:0.2308  1st Qu.:0.2308  1st Qu.:0.2500
## Median :0.4097  Median :0.3846  Median :0.3231  Median :0.4250
## Mean   :0.4434  Mean   :0.4220  Mean   :0.3475  Mean   :0.4353
## 3rd Qu.:0.6289  3rd Qu.:0.5962  3rd Qu.:0.4462  3rd Qu.:0.6125
## Max.   :1.0000  Max.   :1.0000  Max.   :1.0000  Max.   :1.0000
##
##      Frec      Endulzante  Tiempo      Sexo      numVol
## Min.   :0.0000  SA:43      0      :64  HOMBRE:86  1      : 2
## 1st Qu.:0.2807  ST:54      Final:74  MUJER :52  2      : 2
## Median :0.4298  SU:41                                     7      : 2
## Mean   :0.4306                                     15     : 2
## 3rd Qu.:0.6140                                     17     : 2
## Max.   :1.0000                                     20     : 2
##                                     (Other):126
```

Including Plots

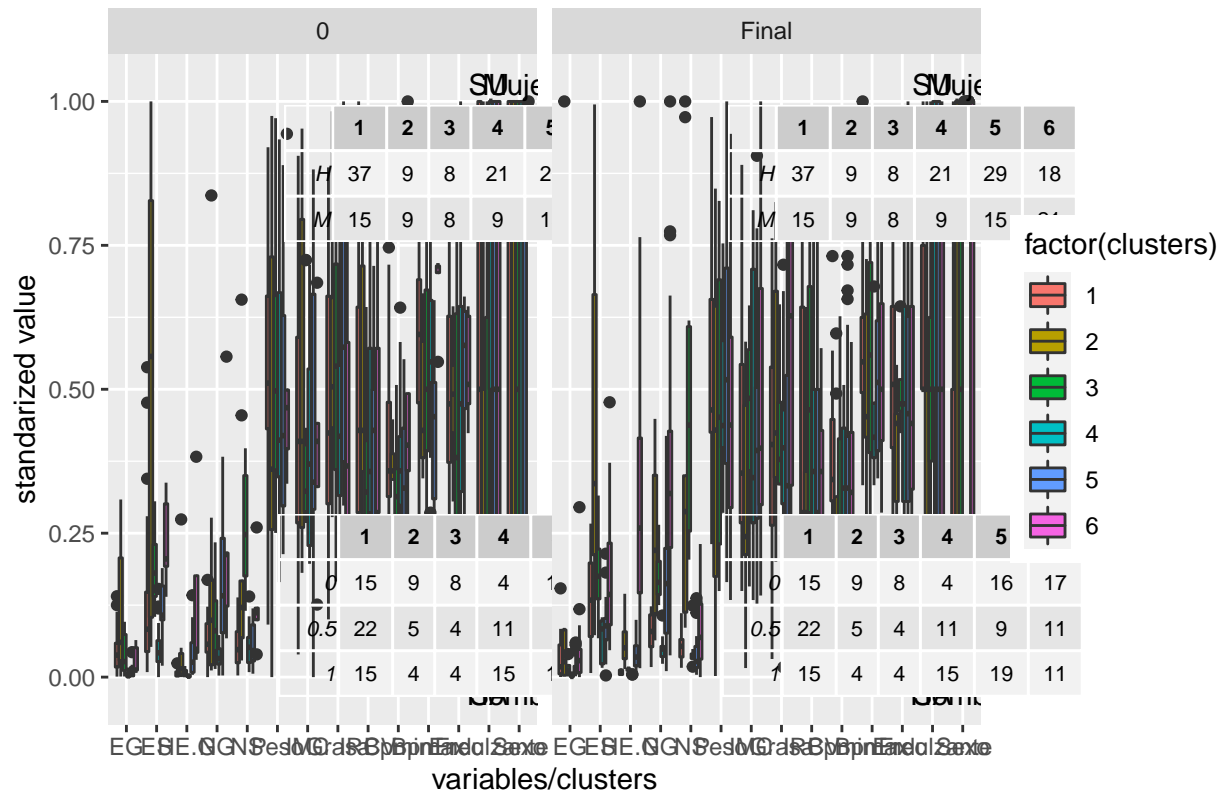
```
## Warning: Continuous limits supplied to discrete scale.
## Did you mean `limits = factor(...)` or `scale*_continuous()`?
## Warning: argument title is deprecated; please use main instead.
## Warning: Use of `longtableOF$variable` is discouraged. Use `variable` instead.
```

0 Final



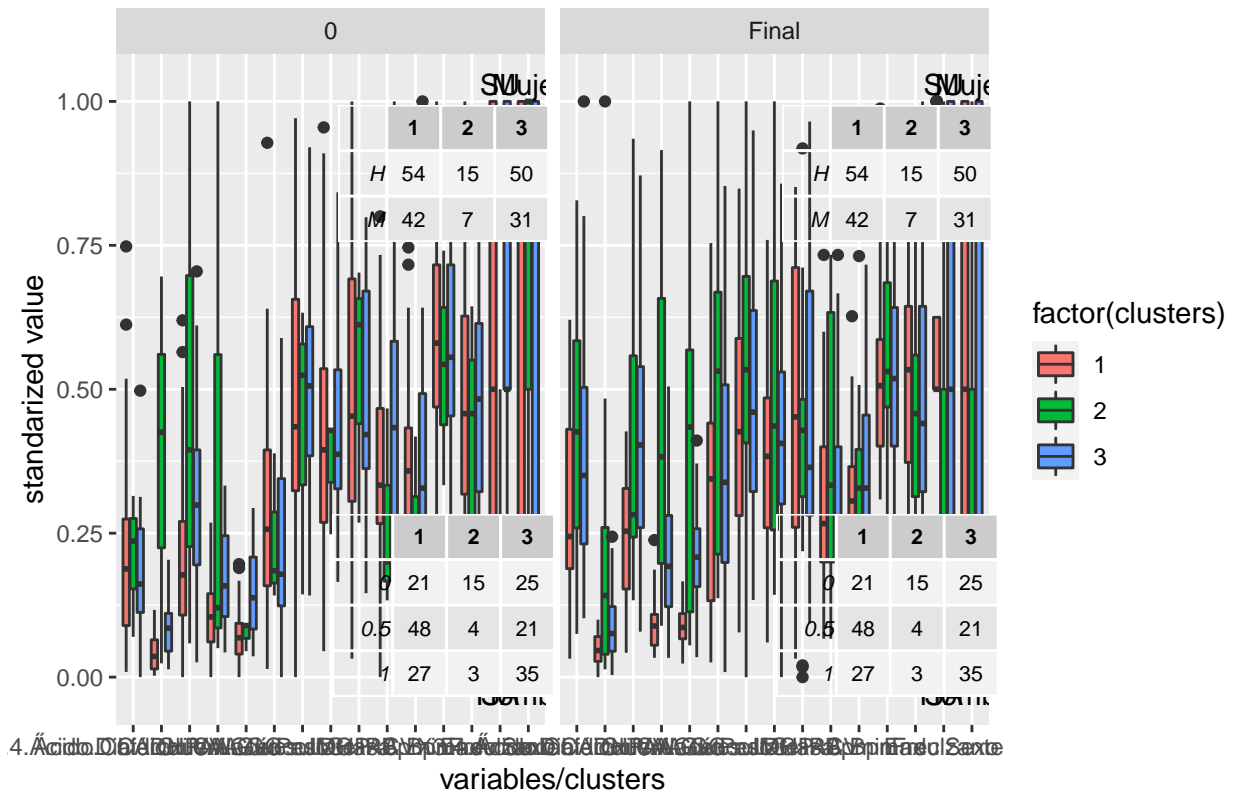
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Boxplot Cluster Analysis Orina Flavonoids

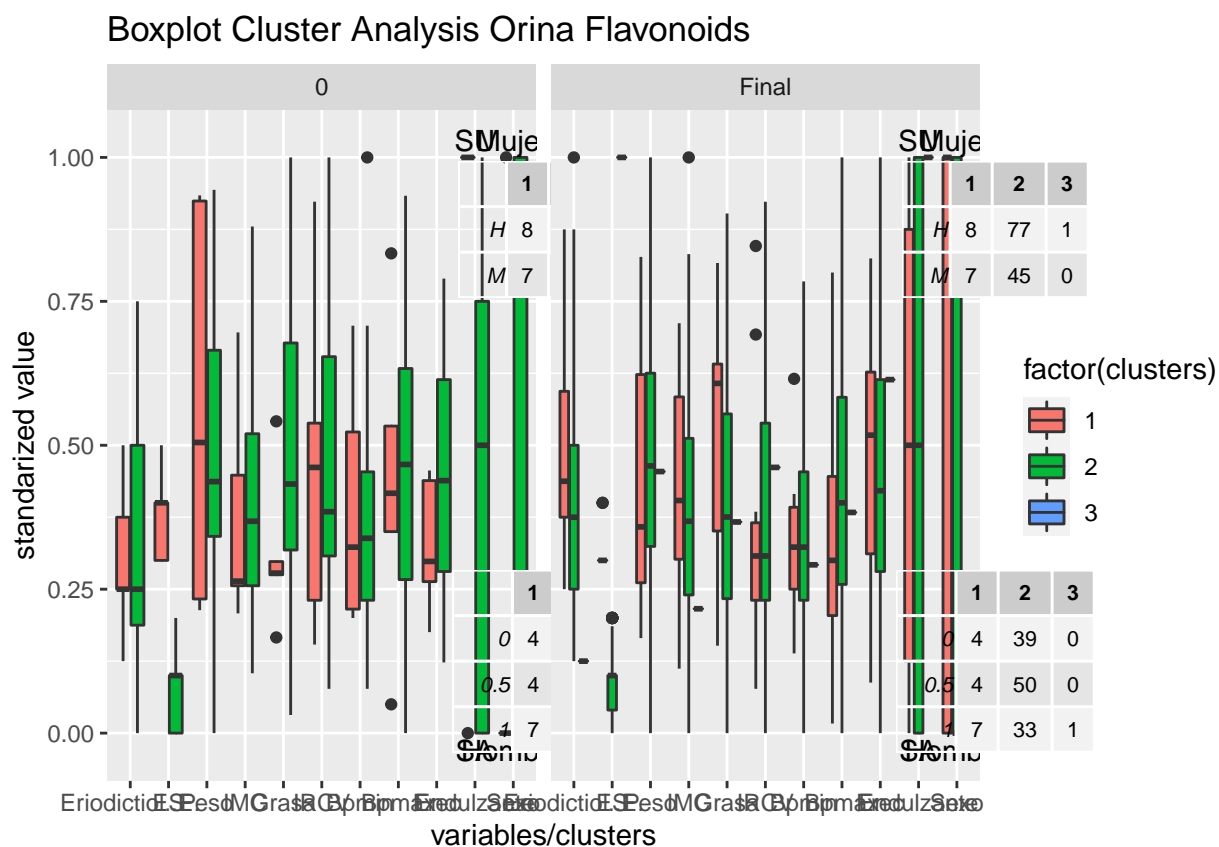


```
## Warning: Continuous limits supplied to discrete scale.
## Did you mean `limits = factor(...)` or `scale*_continuous()`?
## Warning: argument title is deprecated; please use main instead.
## Warning: Use of `longtableOF$variable` is discouraged. Use `variable` instead.
```

Boxplot Cluster Analysis Orina Flavonoids



```
## Warning: Continuous limits supplied to discrete scale.
## Did you mean `limits = factor(...)` or `scale*_continuous()`?
## Warning: argument title is deprecated; please use main instead.
## Too few points to calculate an ellipse
## Warning: Use of `longtableOF$variable` is discouraged. Use `variable` instead.
```



Note that the `echo = FALSE` parameter was added to the code chunk to prevent printing of the R code that generated the plot.