TheCakeReport

Sucre roux and Coco l'asticot

24 mars 2016

Contents

```r
library(lattice)
setwd("/Users/Ofix/Desktop/tcr/")
grades <- read.csv("grades.csv")

boxplotByCake <- function (cakeName, initData){
  data <- initData[which (initData$cake==cakeName),]
  priceByCookie<-round(data$price[1]/data$nb.of.cookies[1],2)
  par(mar=c(4,4,4,4))
  boxplot(data$aspect, data$taste, data$texture, data$packaging, data$qualityByPrice,
          ylim=c(0,4), names=names(data[5:9]),
          cex = 0.5, ylab="note", main=paste(cakeName, "grades from 0 to 4"),
          col=rainbow(5))
  text(1.5, 0.5, paste("Price:", data$price[1], "euros",
       "
Nb of cookies:", data$nb.of.cookies[1], "
            Price by cookie:", priceByCookie,"euros"))
}
```

```r
cakeList <- unique(grades$cake)
length <- length(unique(grades$cake))
cakeList[length]
```

```
## [1] delacre cigarettes
## 11 Levels: carrefour stick chouquettes churros con choc ... st michel tamtam
```

```r
meanList <- c()
for (i in cakeList){
  meanCake <-mean(grades$total[which (grades$cake==i)])
  names(meanCake) <- i
  meanList <- c(meanList, meanCake)
}
print(meanList)
```

```
##         cookie bm cookie granola goc         cookie meta
##          14.70000            15.50000            13.87500
##   st michel tamtam       cracky whaou       pitch pepites
##          12.25000            10.92857            11.25000
##    carrefour stick      delichoc stick    churros con choc
##          11.60000             9.43750            15.83333
##       chouquettes  delacre cigarettes
##                NA            15.65000
```
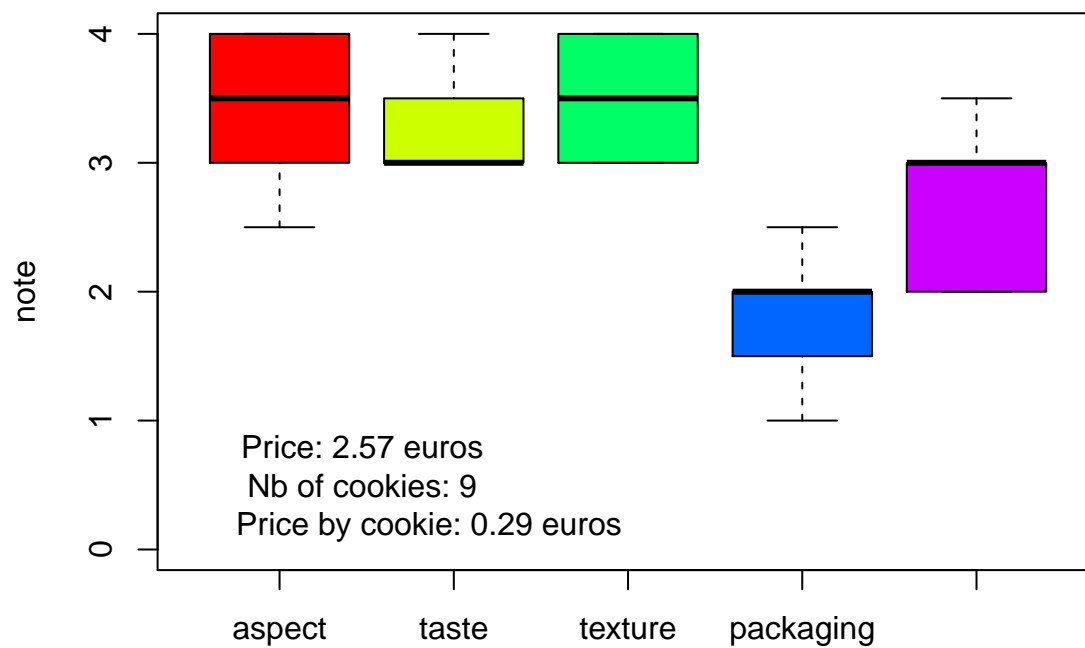
```r
par(mar=c(3,9,4,4))
barplot(sort(meanList), horiz=TRUE, las=1,
        col=terrain.colors(length(meanList)) , main="Total grades for each cake")
```

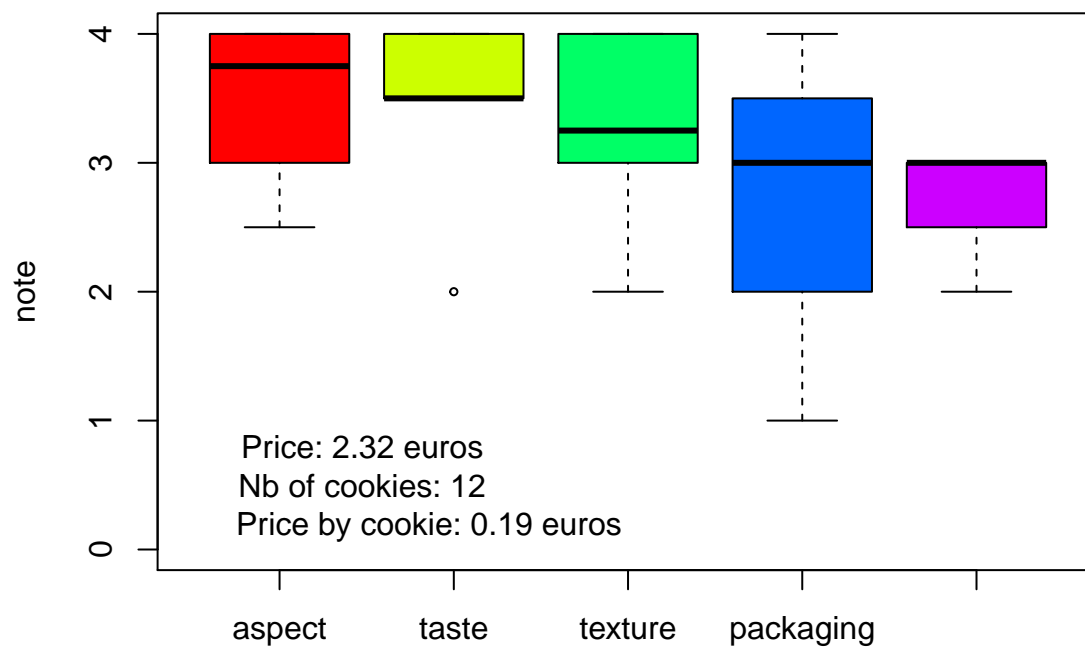## Total grades for each cake
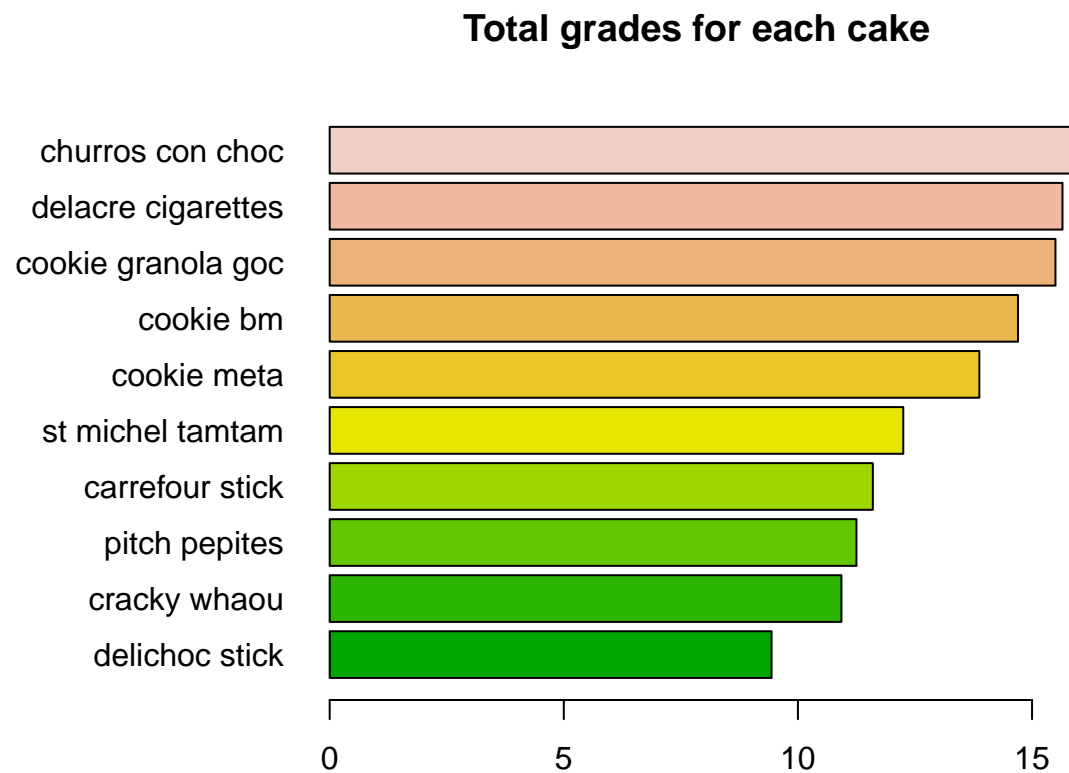

```r
for (i in cakeList){
# print (i)
  boxplotByCake(i, grades)
  meanCake <-mean(grades$total[which (grades$cake==i)])
  print("Note")
  print (meanCake)
}
```
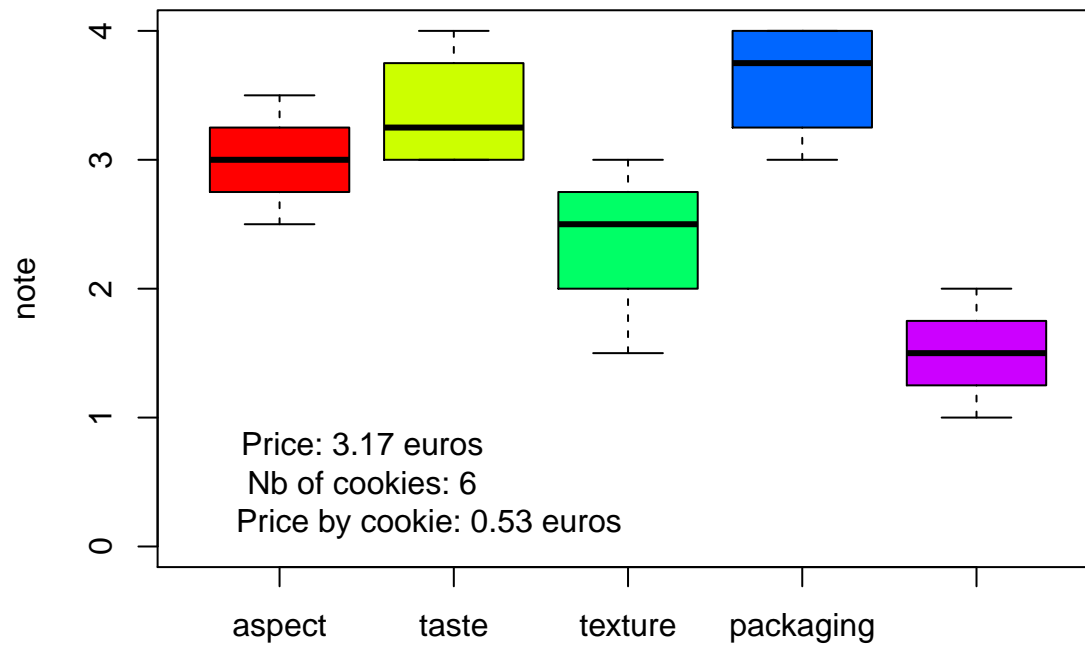
cookie bm grades from 0 to 4


```
## [1] "Note"
## [1] 14.7
```
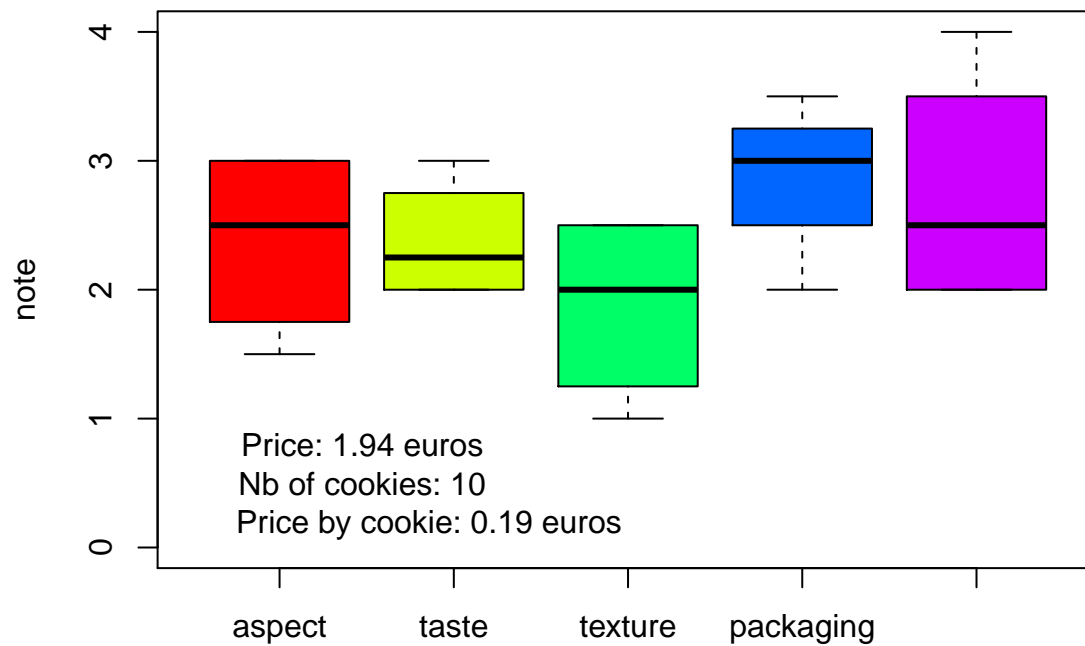
cookie granola goc grades from 0 to 4


```
## [1] "Note"
## [1] 15.5
```
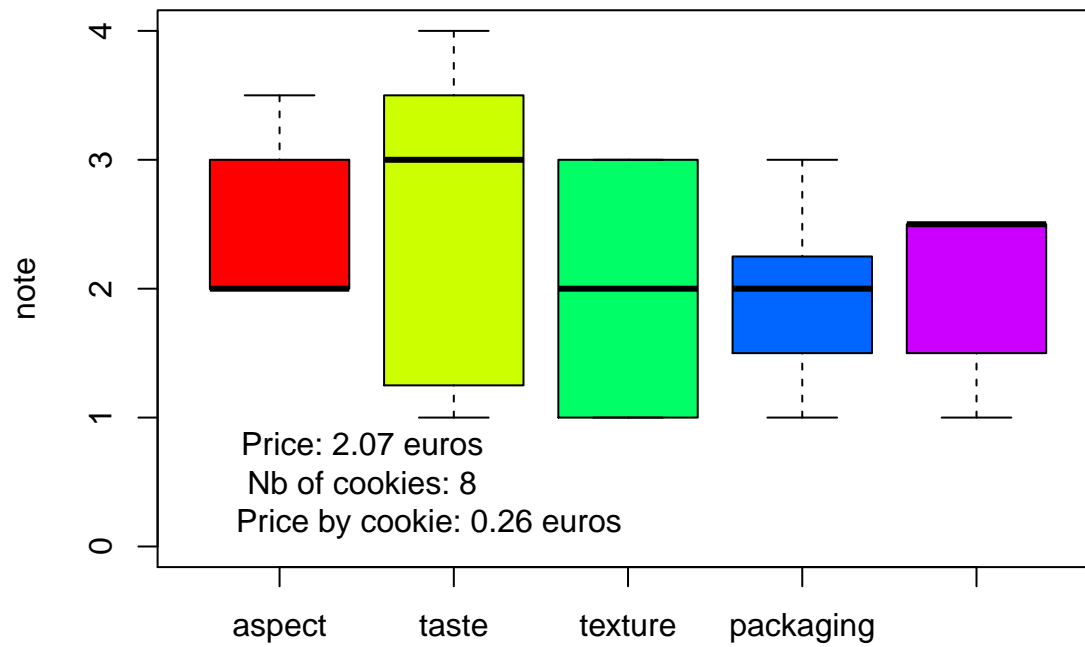
cookie meta grades from 0 to 4

Price: 3.17 euros
Nb of cookies: 6
Price by cookie: 0.53 euros

```
## [1] "Note"
## [1] 13.875
```

st michel tamtam grades from 0 to 4

Price: 1.94 euros
Nb of cookies: 10
Price by cookie: 0.19 euros

```
## [1] "Note"
## [1] 12.25
```

cracky whaou grades from 0 to 4

Price: 2.07 euros
Nb of cookies: 8
Price by cookie: 0.26 euros

```
## [1] "Note"
## [1] 10.92857
```

pitch pepites grades from 0 to 4

Price: 1.95 euros
Nb of cookies: 8
Price by cookie: 0.24 euros
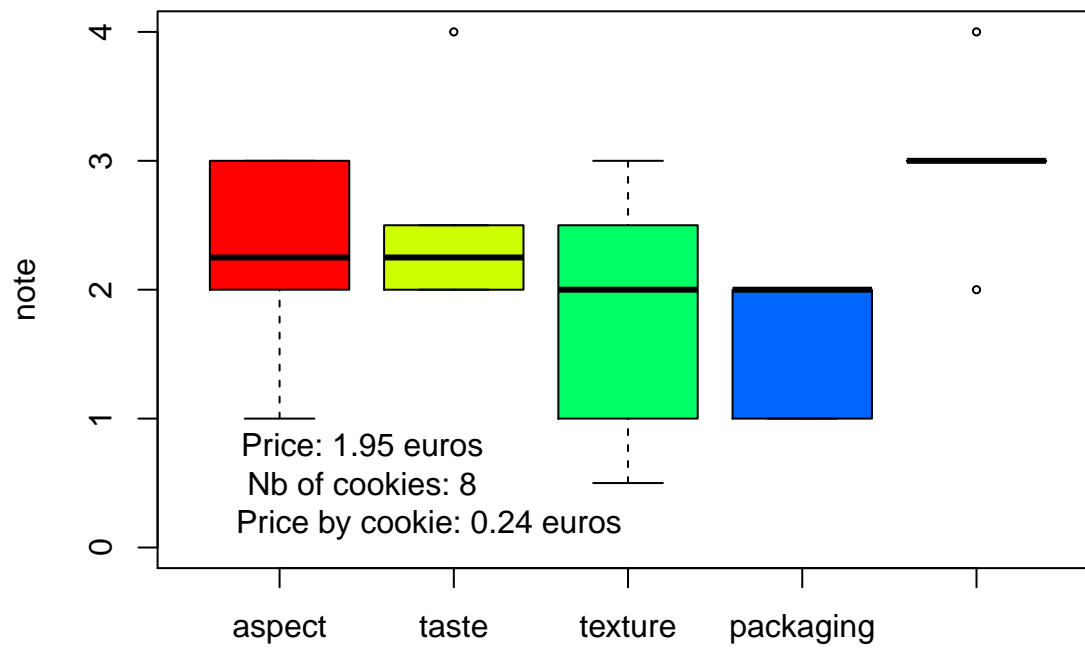
```
## [1] "Note"
## [1] 11.25
```

carrefour stick grades from 0 to 4

Price: 0.8 euros
Nb of cookies: 40
Price by cookie: 0.02 euros

aspect   taste   texture   packaging
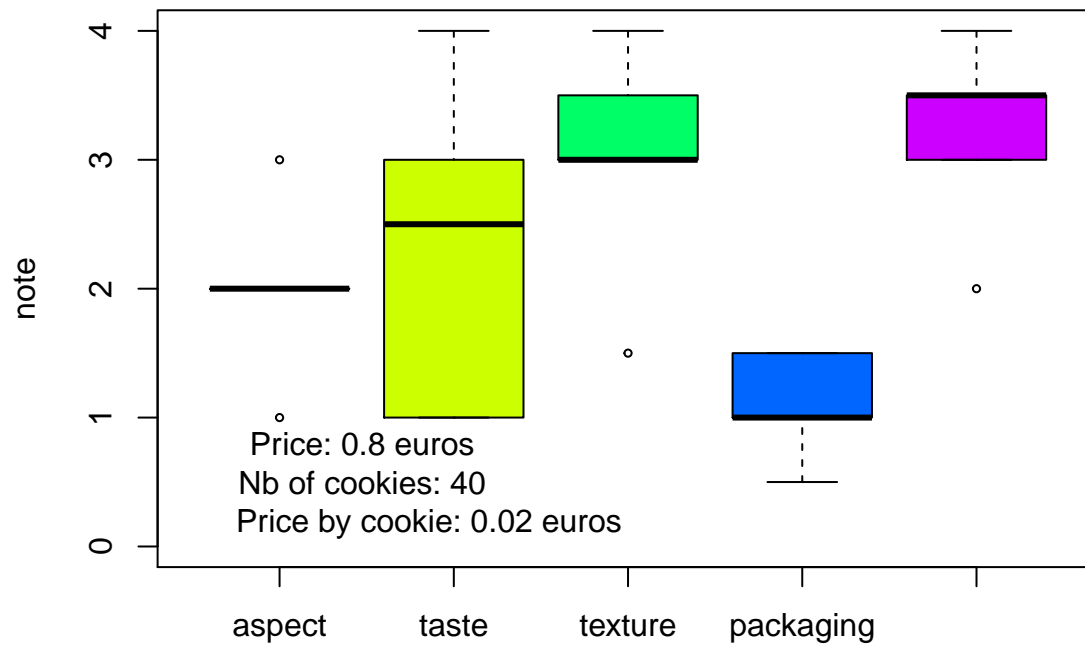
```
## [1] "Note"
## [1] 11.6
```

delichoc stick grades from 0 to 4

Price: 2.09 euros
Nb of cookies: 14
Price by cookie: 0.15 euros

aspect   taste   texture   packaging
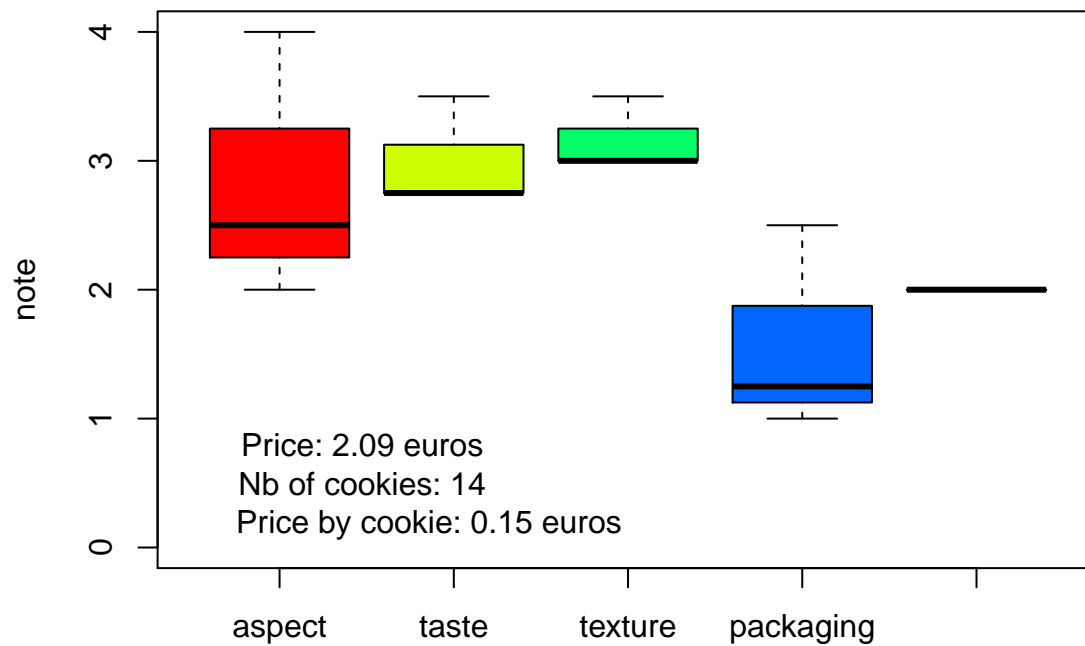
```
## [1] "Note"
## [1] 9.4375
```

churros con choc grades from 0 to 4

note

Price: 4 euros
Nb of cookies: 6
Price by cookie: 0.67 euros

aspect   taste   texture   packaging
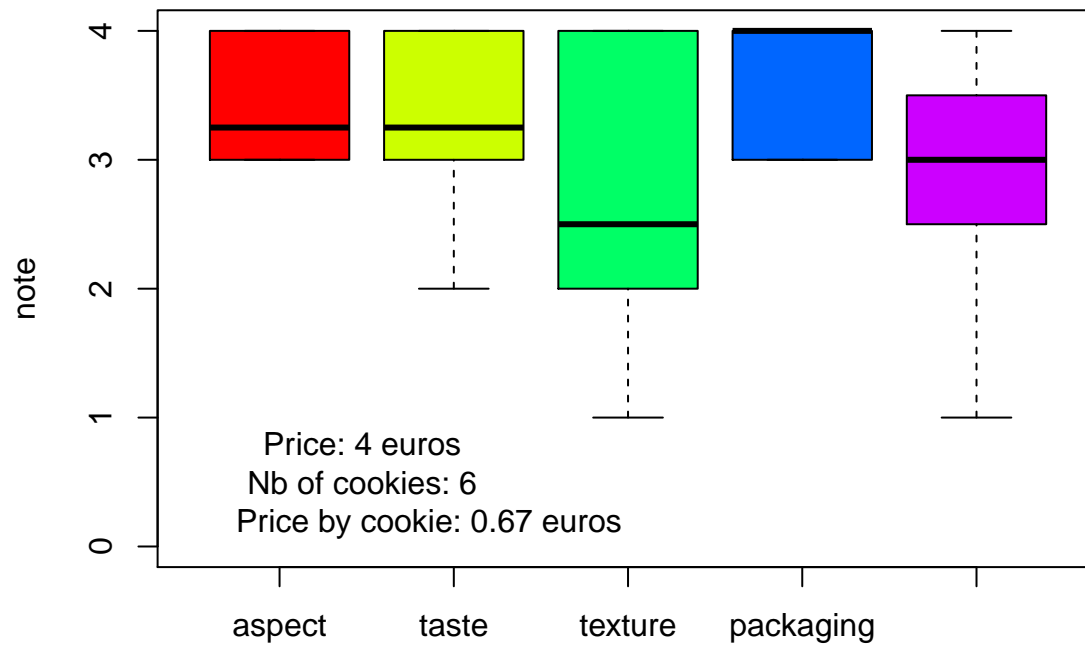
```
## [1] "Note"
## [1] 15.83333
```

chouquettes grades from 0 to 4

note

Price: NA euros
Nb of cookies: 8
Price by cookie: NA euros

aspect   taste   texture   packaging
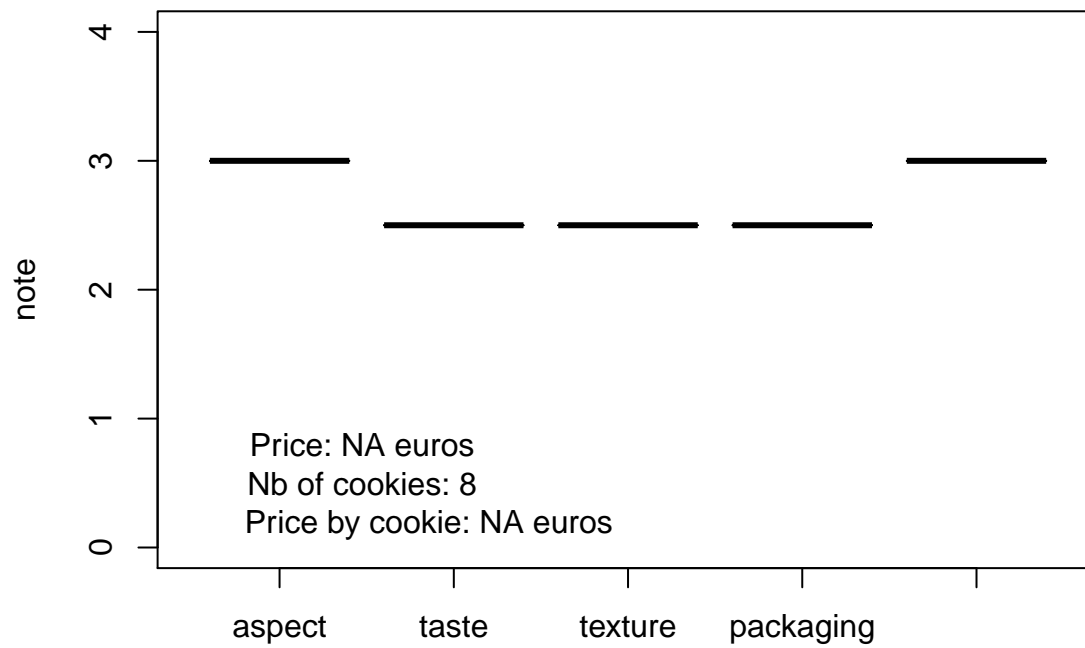
```
## [1] "Note"
## [1] NA
```

delacre cigarettes grades from 0 to 4

Price: 1.3 euros
Nb of cookies: 28
Price by cookie: 0.05 euros

```
## [1] "Note"
## [1] 15.65
```