SMILE Café - Achats

2017-11-23

```
# Load data
dataCoffee <- read.csv(file = "2017-11-23_Cafe_SMILE.csv", stringsAsFactors = FALSE)
```

Here are the data used for the graph:

```
# Just change name to fit on one line
colnames(dataCoffee)[4] <- "TxPresence"
colnames(dataCoffee)[6] <- "Cafe"
```

```
dataCoffee
```

```
##                  Nom DateEntree DateSortie TxPresence DateReleve1 Cafe
## 1             Amaury 2016-11-23       <NA>        1.0  2017-11-23 2.75
## 2           Emmanuel 2016-11-23       <NA>        1.0  2017-11-23 2.00
## 3           Florence 2016-11-23       <NA>        1.0  2017-11-23 4.00
## 4          Guillaume 2016-11-23       <NA>        0.3  2017-11-23 1.00
## 5             Pascal 2016-11-23       <NA>        1.0  2017-11-23 4.25
## 6             Thomas 2016-11-23       <NA>        1.0  2017-11-23 1.50
## 7   FrançoisBienvenu 2016-11-23       <NA>        1.0  2017-11-23 2.50
## 8           Jean-Jil 2016-11-23       <NA>        0.7  2017-11-23 0.75
## 9              Marc 2016-11-23       <NA>        0.5  2017-11-23 2.50
## 10        Marguerite 2016-11-23 2017-09-01        0.0  2017-11-23 0.00
## 11           Miraine 2016-11-23 2017-03-01        1.0  2017-11-23 1.75
## 12              Vero 2016-11-23       <NA>        1.0  2017-11-23 4.50
## 13             Anton 2016-11-23       <NA>        1.0  2017-11-23 3.00
## 14               Pat 2016-12-01 2017-06-01        0.2  2017-11-23 0.25
## 15            EliseK 2017-02-01       <NA>        0.6  2017-11-23 1.00
## 16             Félix 2017-02-01       <NA>        1.0  2017-11-23 1.00
## 17            Elise2 2017-02-01 2017-07-01        1.0  2017-11-23 0.75
## 18           Tristan 2017-02-01 2017-07-01        1.0  2017-11-23 1.00
## 19             Julie 2017-06-01       <NA>        1.0  2017-11-23 2.00
## 20 FrançoisBlanquart 2017-10-01       <NA>        1.0  2017-11-23 1.00
```

```
# And revert back to old name
colnames(dataCoffee)[4] <- "TauxPresenceConsoPeriode1"
colnames(dataCoffee)[6] <- "CafeAchete1"
```

```
# Put today's date in end date for calculations
dataCoffee[is.na(dataCoffee$DateSortie),"DateSortie"] <- "2017-11-23"
```

Compute the time spend in the team, scaled by proportion of the week spent at SMILE:

```
# Compute duration in days
DurationDays <- as.numeric(as.Date(dataCoffee$DateSortie) - as.Date(dataCoffee$DateEntree))
dataCoffee <- cbind(dataCoffee,
                    Duration1 = DurationDays)

# Scale by Presence&Consumption
dataCoffee <- cbind(dataCoffee,
                    ScaledDuration1 = dataCoffee$TauxPresenceConsoPeriode1*DurationDays)
```

Scale the amount of coffee bought by this scaled time:

```
# Scale Coffee: Bought coffee divided by scaled duration
dataCoffee <- cbind(dataCoffee,
                    ScaledCoffee = dataCoffee$CafeAchete1 / dataCoffee$ScaledDuration1)
```

```
# Put Marguerite at 0
dataCoffee[is.nan(dataCoffee$ScaledCoffee), "ScaledCoffee"] <- 0
```

Sort the data by the Scaled amount of coffee that was bought

```
sortindex <- sort(dataCoffee$ScaledCoffee, index.return = TRUE, decreasing = TRUE)
subData <- dataCoffee[sortindex$ix, c("Nom", "ScaledCoffee")]
```

Plot the result, as a bar graph, and the average amount as horizontal line:

```
par(las = 1, mar=c(7.5, 3, 2.2, 0.2), lend = 1)
plot(subData$ScaledCoffee*365, type = "h", lwd = 4, frame.plot = FALSE, axes = FALSE,
     xlab = "", ylab = "Café / temps", ylim = c(0, max(subData$ScaledCoffee*365)))
abline(h = mean(dataCoffee$ScaledCoffee*365, na.rm = TRUE), lty = 2)
axis(1, at = seq_along(subData$Nom), labels = subData$Nom, las = 2, pos = 0)
axis(2)
title("Scaled Amount of Coffee Bought")
mtext( "\n(2016-11-23 -- 2017-11-23)", 3, line = -0.5)
```