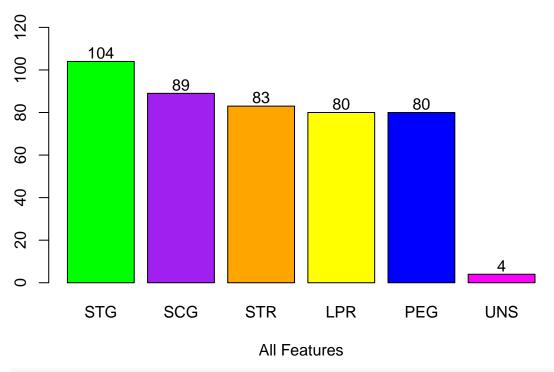
## Discovery\_dataset

## Ariel-ac4391 11/22/2018

Here, I recapitulate the main step related in the research paper with the gaphes associated

```
The first step is data cleansing:
```

```
training_data=read.csv("data/Data_User_Modeling_training_Dataset.csv")
library(ggplot2)
library(dplyr)
##
## Attaching package: 'dplyr'
## The following objects are masked from 'package:stats':
##
##
       filter, lag
## The following objects are masked from 'package:base':
##
       intersect, setdiff, setequal, union
summary(training_data)
##
        STG
                          SCG
                                          STR
                                                           LPR
                            :0.0000
##
  Min.
           :0.0000
                    Min.
                                    Min.
                                            :0.0000
                                                      Min.
                                                             :0.0000
                    1st Qu.:0.2100
##
  1st Qu.:0.2407
                                   1st Qu.:0.2913
                                                      1st Qu.:0.2500
## Median :0.3270
                    Median :0.3025
                                   Median :0.4900
                                                      Median :0.3300
         :0.3711
                    Mean :0.3557 Mean :0.4680
## Mean
                                                      Mean :0.4327
##
   3rd Qu.:0.4950
                    3rd Qu.:0.4975
                                     3rd Qu.:0.6900
                                                      3rd Qu.:0.6475
## Max.
           :0.9900
                    Max.
                          :0.9000 Max. :0.9500
                                                            :0.9900
                                                      Max.
##
        PEG
                          UNS
## Min.
           :0.0000
                    High
                             :63
## 1st Qu.:0.2500
                    Low
                             :83
## Median :0.5000
                    Middle :88
## Mean
          :0.4585
                    very_low:24
## 3rd Qu.:0.6600
## Max.
           :0.9300
attach(training_data)
# Number of distinct values in each feture
a = n_distinct(STG)
b = n_distinct(SCG)
c = n_distinct(STR)
d = n_distinct(LPR)
e = n_distinct(PEG)
f = n_distinct(UNS)
num_distinct = c(a,b,c,d,e,f)
plot = barplot(num_distinct, names = c("STG", "SCG", "STR", "LPR", "PEG", "UNS"), ylim=c(0,120), xlab=".
text(plot,num_distinct + 4,labels=as.character(num_distinct))
```



# stat summary of the data
summary(STG,SCG,STR,LPR,PEG)

## Min. 1st Qu. Median Mean 3rd Qu. Max. ## 0.0000 0.2407 0.3270 0.3711 0.4950 0.9900