#7TotaldescriptivaClean5.Rmd #install.packages("rmarkdown")
#library("rmarkdown")

READING CREDSCO.CSV. NOTE: Change the path of the file for the proper one in your computer.

Remember that subfolders must be indicated by "/" and not by ""

Here you can write the introduction of your report and include some text that will be transferred to the word file every time you re-run this Markdown

WARNING: data must have been properly declared before (factors, dates...)

```
# dd <-
read.table("D:/karina/docencia/areferenciesPPT/0DadesPractiques/CREDSCO/c
redscoCategoriques2.csv",header=T, sep=";", dec=",")
#dd<- read.csv("D:/karina/TFGs/GrauEstadistica/MarcPinar/data.csv",
sep=";")

#dataset<-"platjaDaro"
#dataset<-"futbol"

#setwd("D:/karina/projectes/ON/a2020INSESSCOVIDisocial/18DadesTallers")
#dd<- read.table("2Formulari5TPlataDarov1.csv",header=T, sep=",",
dec=".", na.strings="*");
#dataset<-"planta"

dataset<-"CREDSCO"
```

Set the folder where the word file is going to be generated

```
setwd("/Users/davidmorais/Desktop/PARS-GEI-FIB/Obligatories/Q7/MD")
dd<- read.table("hotel_sample_5000.csv",header=T, sep=",", dec=".")
```

Check the type of the R object created for the dataset

```
class(dd)
```

```
## [1] "data.frame"
```

without including the R instruction in the final document

```
## [1] "data.frame"
```

Get dimensions of the dataset

```
dim(dd)
```

```
## [1] 5000    32
```

```
n<-dim(dd)[1]
K<-dim(dd)[2]
```

```
n
```

```
## [1] 5000
```

```
K
```

```
## [1] 32
```

Check the variables

```r
names(dd)
```

```
##  [1] "hotel"                          "is_canceled"
##  [3] "lead_time"                      "arrival_date_year"
##  [5] "arrival_date_month"             "arrival_date_week_number"
##  [7] "arrival_date_day_of_month"      "stays_in_weekend_nights"
##  [9] "stays_in_week_nights"           "adults"
## [11] "children"                       "babies"
## [13] "meal"                           "country"
## [15] "market_segment"                 "distribution_channel"
## [17] "is_repeated_guest"              "previous_cancellations"
## [19] "previous_bookings_not_canceled" "reserved_room_type"
## [21] "assigned_room_type"             "booking_changes"
## [23] "deposit_type"                   "agent"
## [25] "company"                        "days_in_waiting_list"
## [27] "customer_type"                  "adr"
## [29] "required_car_parking_spaces"    "total_of_special_requests"
## [31] "reservation_status"             "reservation_status_date"
```

Decide if you need to declare some more factor or date

```r
descriptiva<-function(X, nom){
  if (!(is.numeric(X) || class(X)=="Date")){
    frecs<-table(as.factor(X), useNA="ifany")
    proportions<-frecs/n
    #ojo, decidir si calcular porcentages con o sin missing values
    pie(frecs, cex=0.6, main=paste("Pie of", nom))
    barplot(frecs, las=3, cex.names=0.7, main=paste("Barplot of", nom),
col=listOfColors)
    print(paste("Number of modalities: ", length(frecs)))
    print("Frequency table")
    print(frecs)
    print("Relative frequency table (proportions)")
    print(proportions)
    print("Frequency table sorted")
    print(sort(frecs, decreasing=TRUE))
    print("Relative frequency table (proportions) sorted")
    print(sort(proportions, decreasing=TRUE))
  }else{
    if(class(X)=="Date"){
      print(summary(X))
```

```
      print(sd(X))
      #decide breaks: weeks, months, quarters...
      hist(X,breaks="weeks")
    }else{
      hist(X, main=paste("Histogram of", nom))
      boxplot(X, horizontal=TRUE, main=paste("Boxplot of",nom))
      print("Extended Summary Statistics")
      print(summary(X))
      print(paste("sd: ", sd(X, na.rm=TRUE)))
      print(paste("vc: ", sd(X, na.rm=TRUE)/mean(X, na.rm=TRUE)))
    }
  }
}

dataset<-dd
actives<-c(1:K)
colDate<-1
```
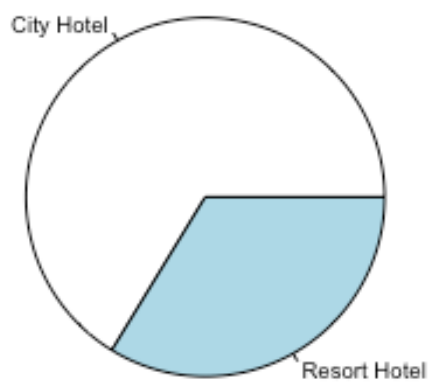
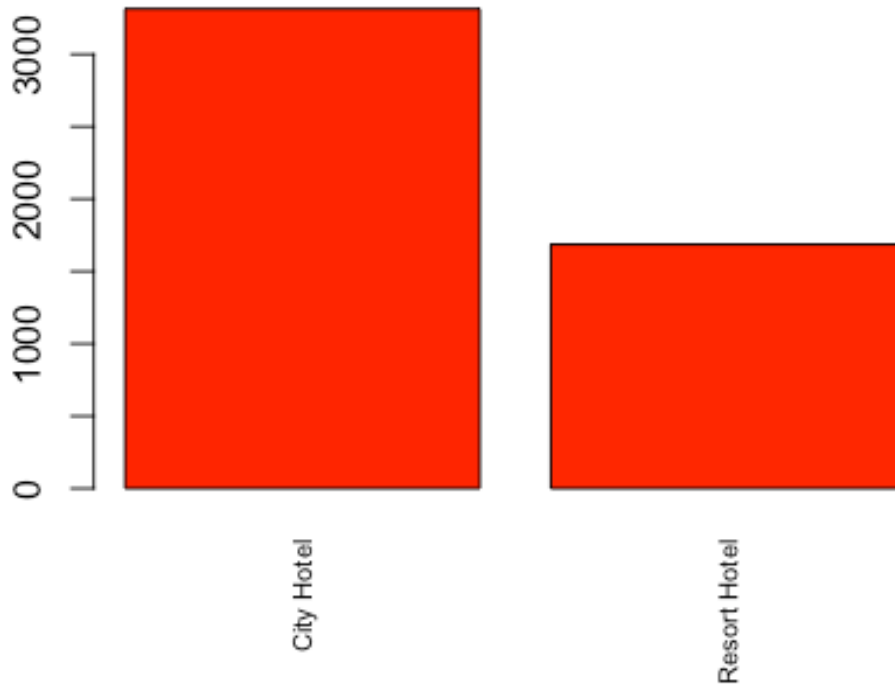Basic descriptive analysis for numerical variables

(decide the maximum number of colors you can need in a graph based on your metadata file)

```
## [1] "variable  1 : hotel"
```

# Pie of hotel

Barplot of hotel


```
## [1] "Number of modalities:  2"
## [1] "Frequency table"
##
##   City Hotel Resort Hotel
##         3314         1686
## [1] "Relative frequency table (proportions)"
##
##   City Hotel Resort Hotel
##       0.6628       0.3372
## [1] "Frequency table sorted"
##
##   City Hotel Resort Hotel
##         3314         1686
## [1] "Relative frequency table (proportions) sorted"
##
##   City Hotel Resort Hotel
##       0.6628       0.3372
## [1] "variable  2 : is_canceled"
```

Histogram of is_canceled
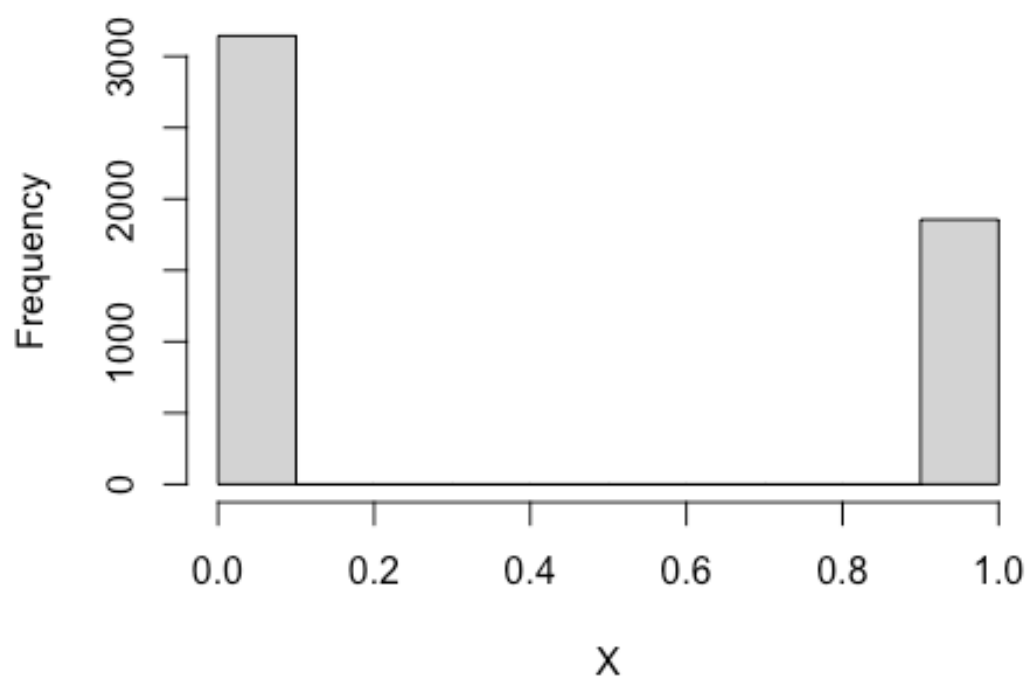
Boxplot of is_canceled
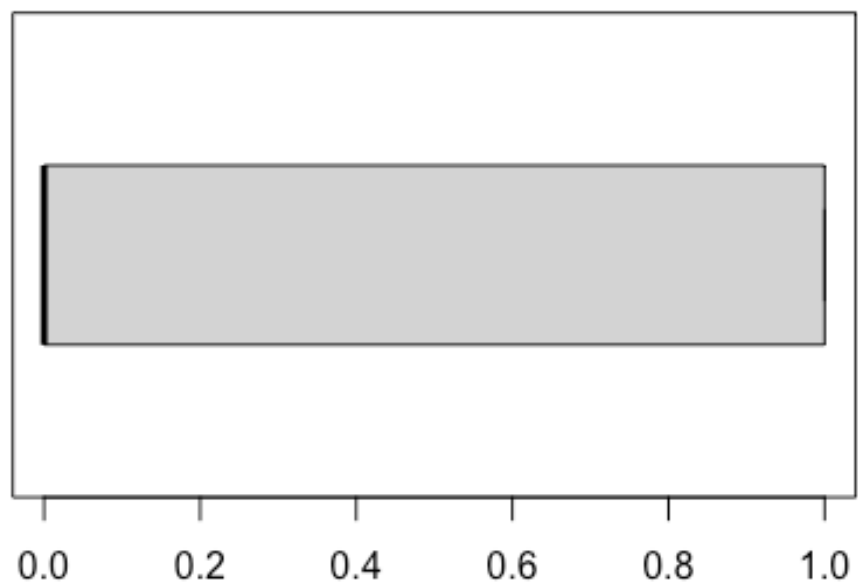

```
## [1] "Extended Summary Statistics"
##    Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##  0.0000  0.0000  0.0000  0.3712  1.0000  1.0000
## [1] "sd:  0.483174141951212"
## [1] "vc:  1.30165447723926"
## [1] "variable  3 : lead_time"
```

Histogram of lead_time
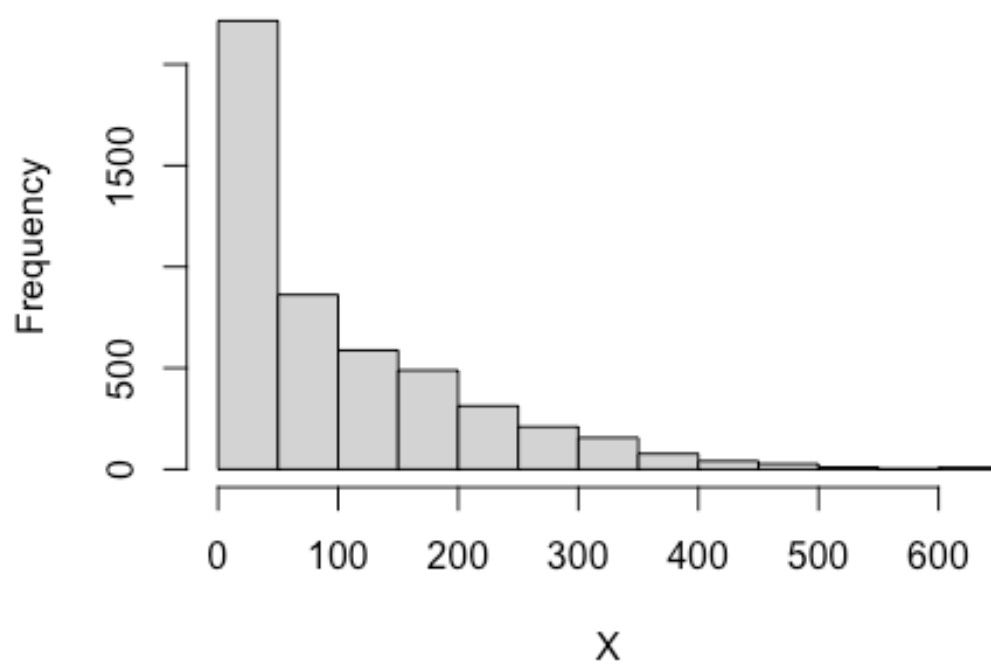
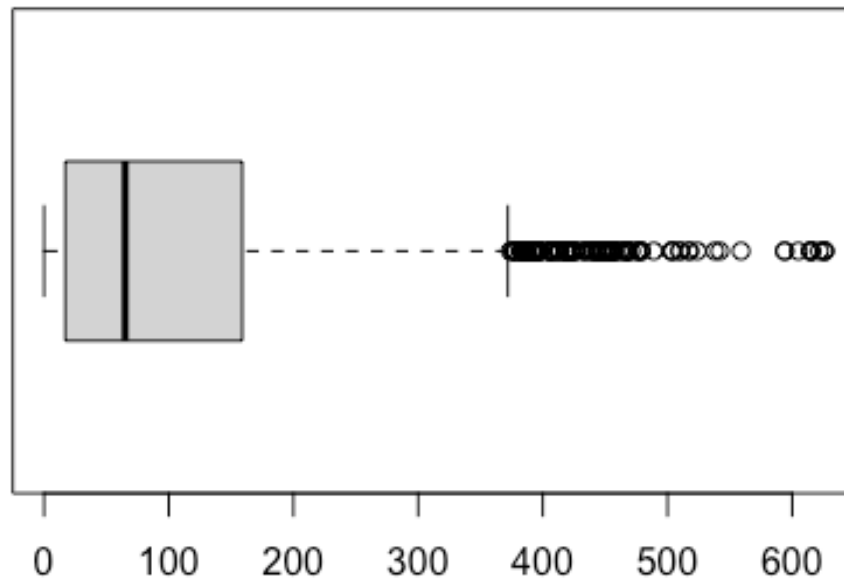# Boxplot of lead_time


```
## [1] "Extended Summary Statistics"
##    Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##     0.0    17.0    65.0   101.7   159.0   626.0
## [1] "sd:  107.203701323954"
## [1] "vc:  1.0545795041282"
## [1] "variable  4 : arrival_date_year"
```

Histogram of arrival_date_year
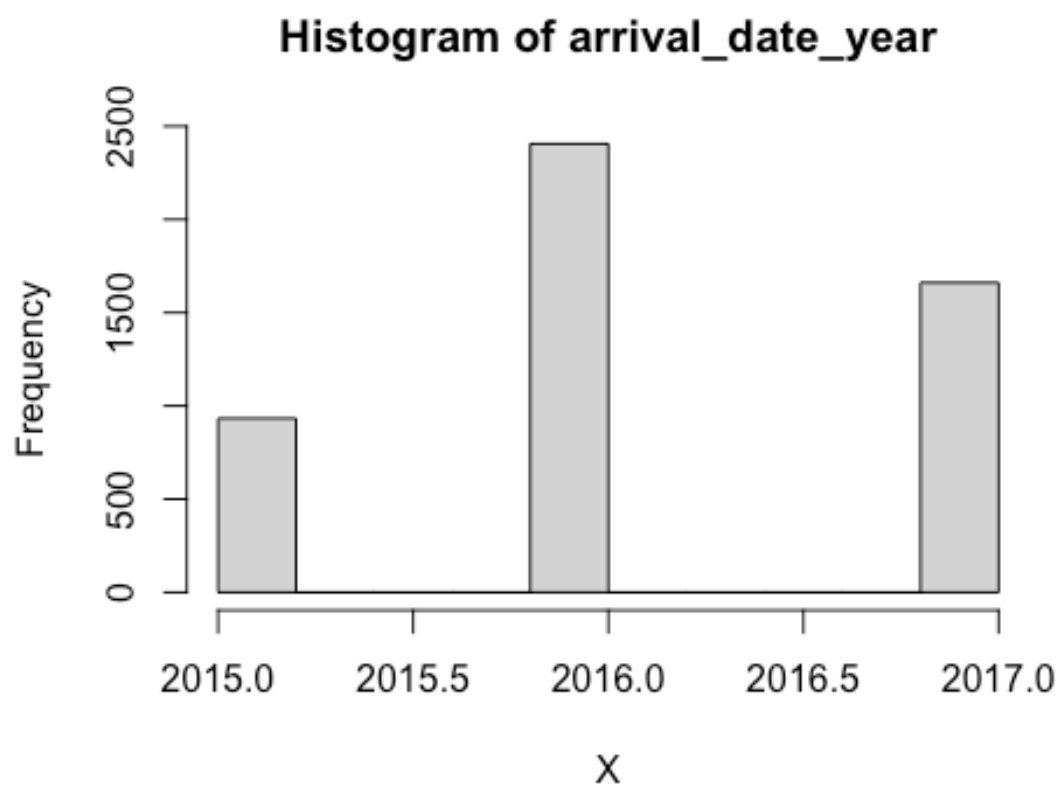
Boxplot of arrival_date_year
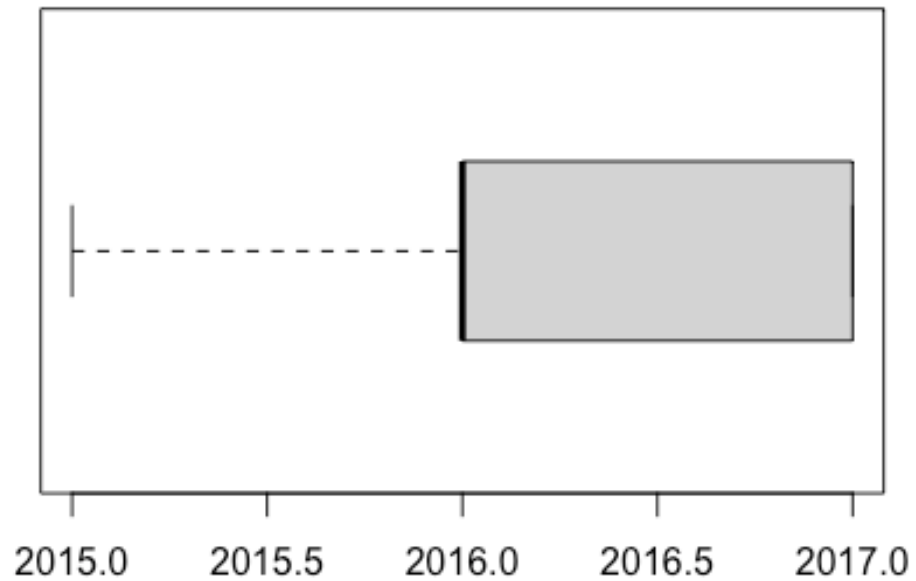

```
## [1] "Extended Summary Statistics"
##    Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##    2015    2016    2016    2016    2017    2017
## [1] "sd:  0.705478688576776"
## [1] "vc:  0.000349914554076241"
## [1] "variable  5 : arrival_date_month"
```

Pie of arrival_date_month

Barplot of arrival_date_month
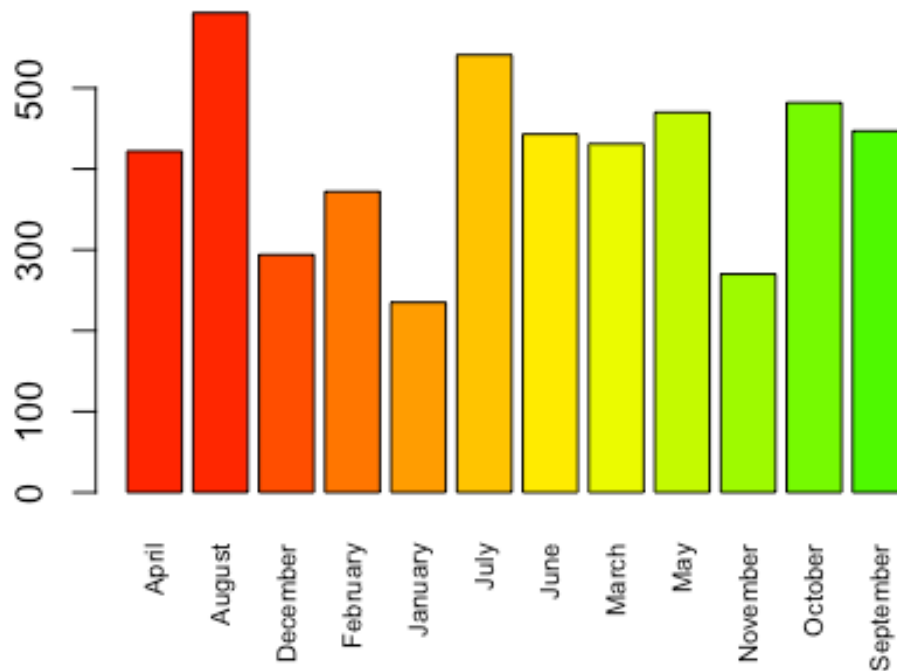

```
## [1] "Number of modalities:  12"
## [1] "Frequency table"
##
##      April     August   December   February    January       July       June
March
##        422        593        294        372        235        541        443
431
##        May   November    October  September
##        470        270        482        447
## [1] "Relative frequency table (proportions)"
##
##      April     August   December   February    January       July       June
March
##     0.0844     0.1186     0.0588     0.0744     0.0470     0.1082     0.0886
0.0862
##        May   November    October  September
##     0.0940     0.0540     0.0964     0.0894
## [1] "Frequency table sorted"
##
##     August       July    October        May  September       June      March
April
##        593        541        482        470        447        443        431
422
```

```
##   February  December  November   January
##        372       294       270       235
## [1] "Relative frequency table (proportions) sorted"
##
##      August      July   October      May September      June     March
## April
##      0.1186    0.1082    0.0964    0.0940    0.0894    0.0886    0.0862
## 0.0844
##   February  December  November   January
##      0.0744    0.0588    0.0540    0.0470
## [1] "variable  6 : arrival_date_week_number"
```

Histogram of arrival_date_week_number

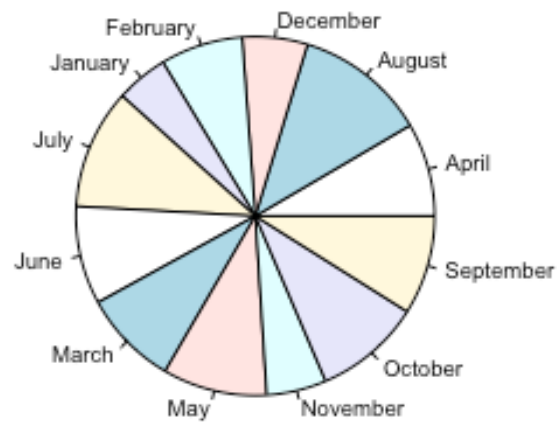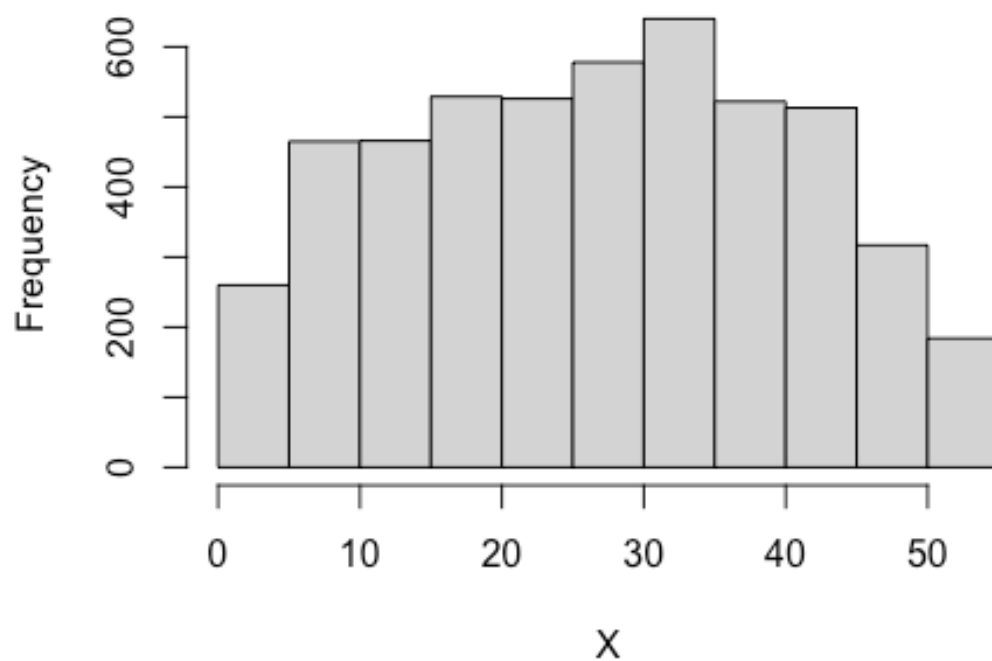# Boxplot of arrival_date_week_number
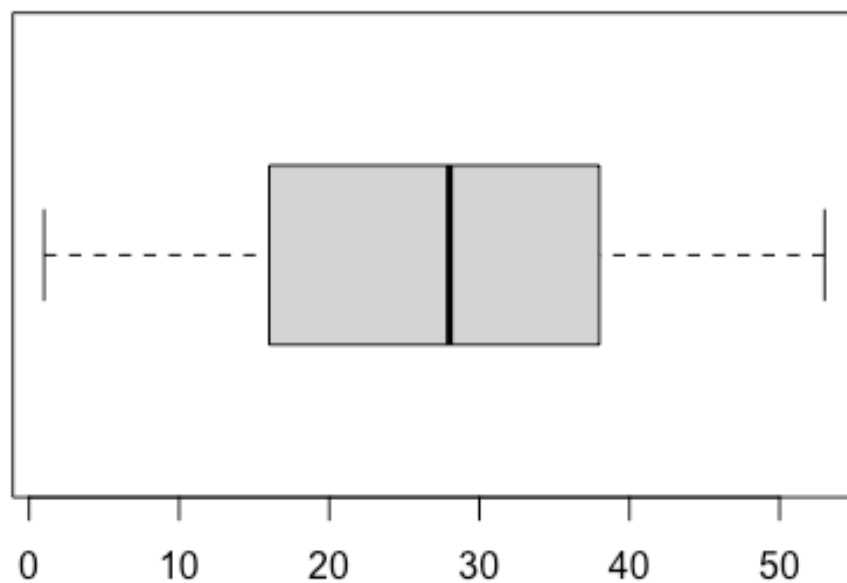

```
## [1] "Extended Summary Statistics"
##    Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##    1.00   16.00   28.00   27.27   38.00   53.00
## [1] "sd:  13.6901524569619"
## [1] "vc:  0.502066645284582"
## [1] "variable  7 : arrival_date_day_of_month"
```

Histogram of arrival_date_day_of_month
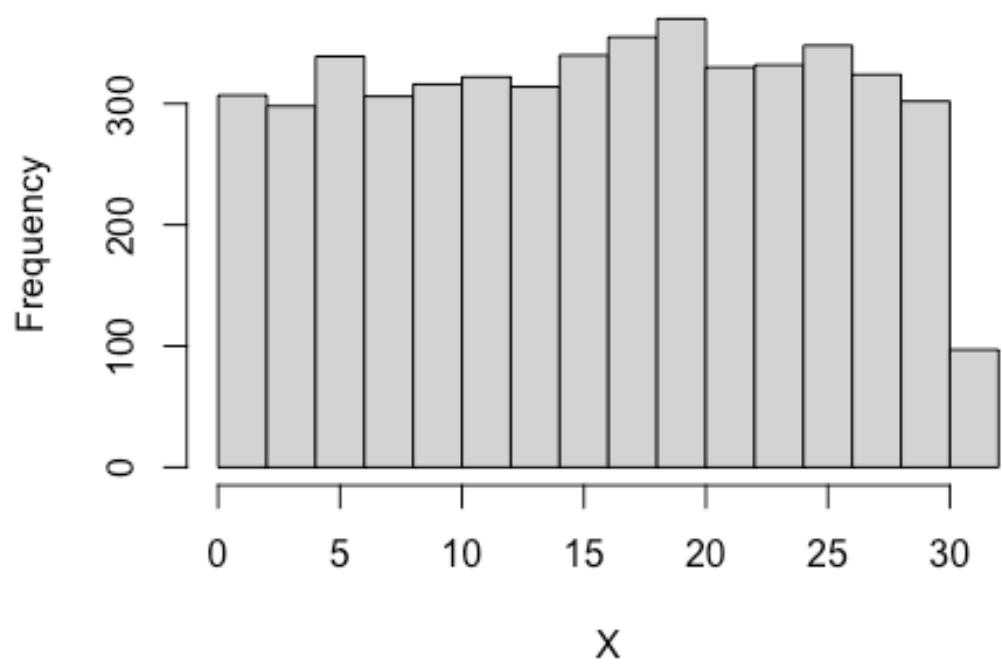
Boxplot of arrival_date_day_of_month
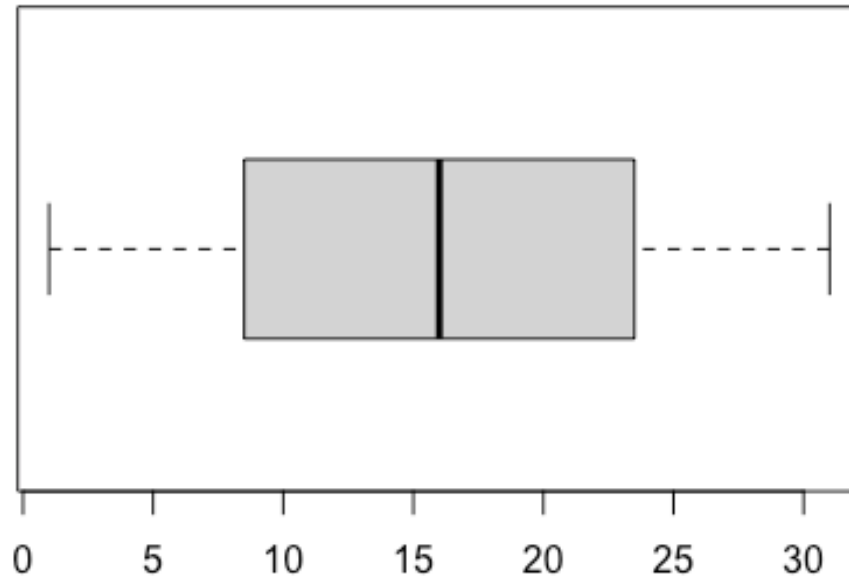

```
## [1] "Extended Summary Statistics"
##    Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##    1.00    8.75   16.00   16.00   23.25   31.00
## [1] "sd:  8.71030173020695"
## [1] "vc:  0.544536799047685"
## [1] "variable  8 : stays_in_weekend_nights"
```

Histogram of stays_in_weekend_nights
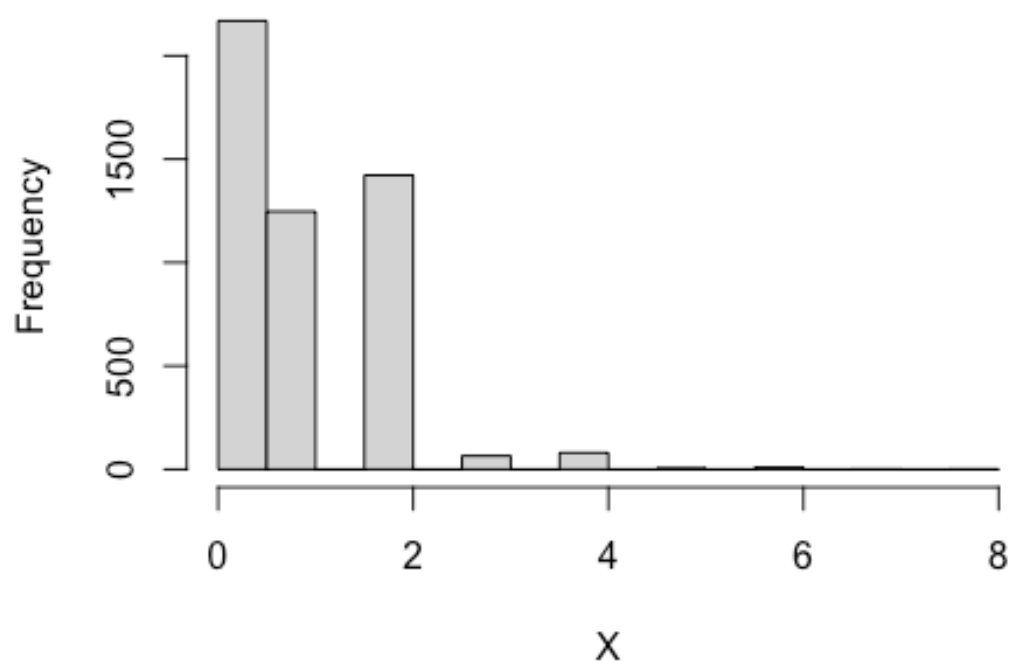
Boxplot of stays_in_weekend_nights
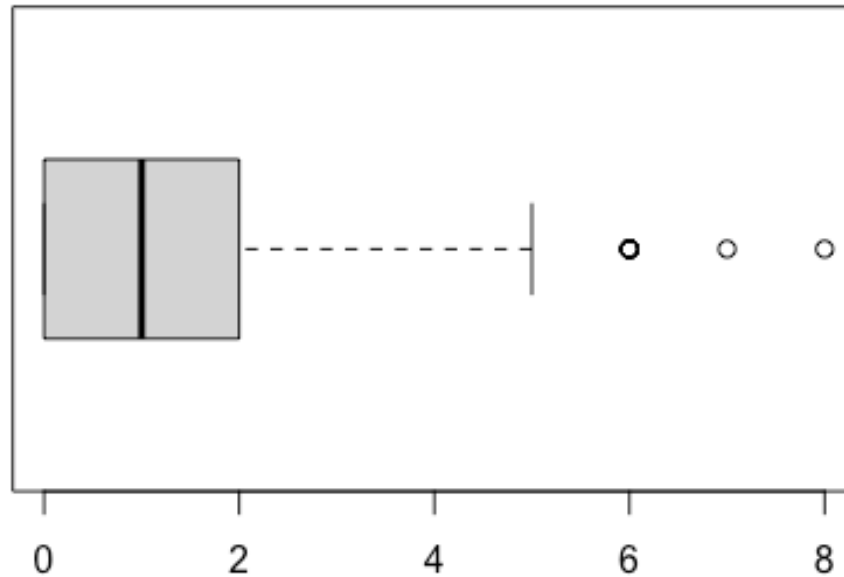

```
## [1] "Extended Summary Statistics"
##    Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##   0.000   0.000   1.000   0.941   2.000   8.000
## [1] "sd:  0.996050914102636"
## [1] "vc:  1.05850256546508"
## [1] "variable  9 : stays_in_week_nights"
```

Histogram of stays_in_week_nights
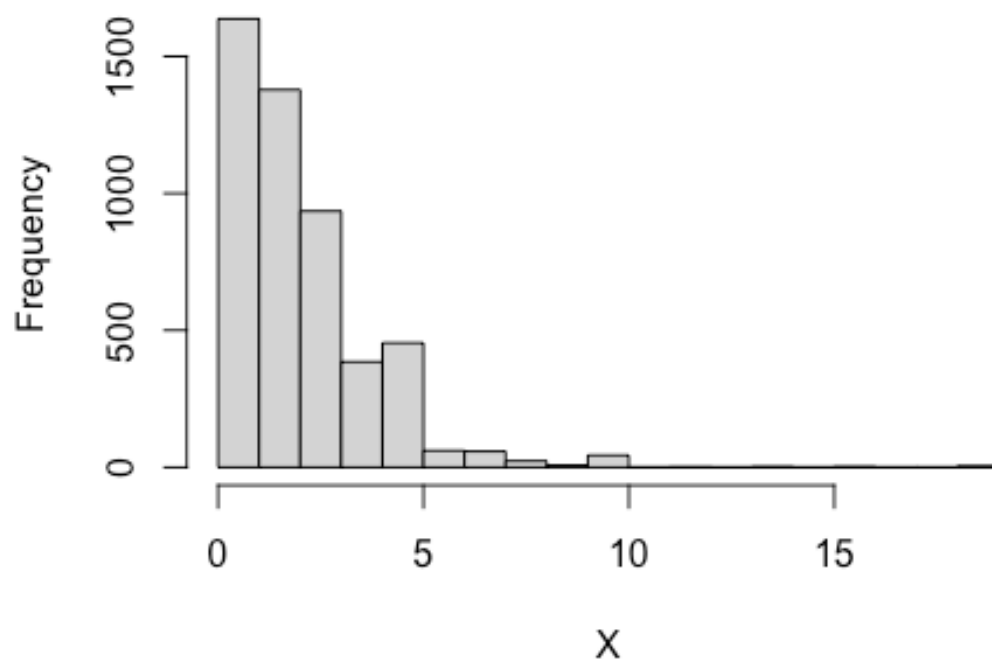
Boxplot of stays_in_week_nights
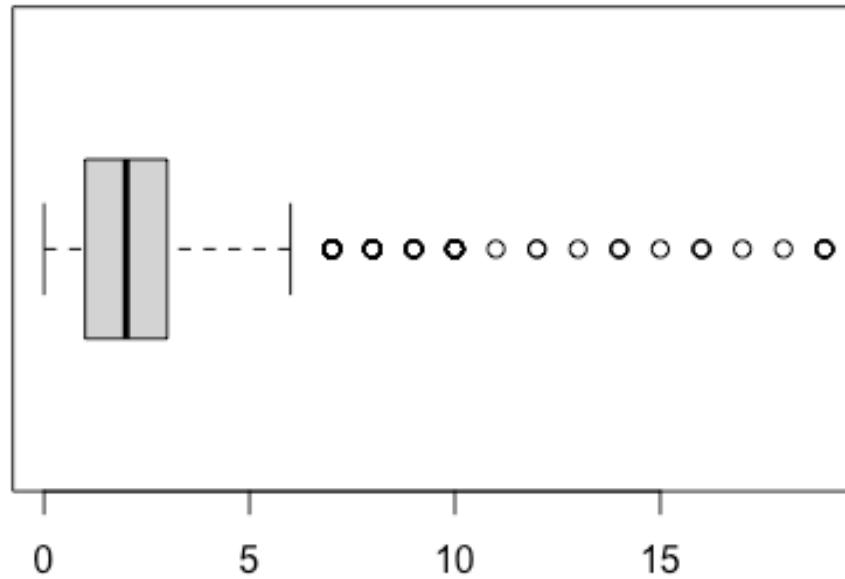

```
## [1] "Extended Summary Statistics"
##    Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##   0.000   1.000   2.000   2.487   3.000  19.000
## [1] "sd:  1.89159896101839"
## [1] "vc:  0.760594676726334"
## [1] "variable  10 : adults"
```

Histogram of adults
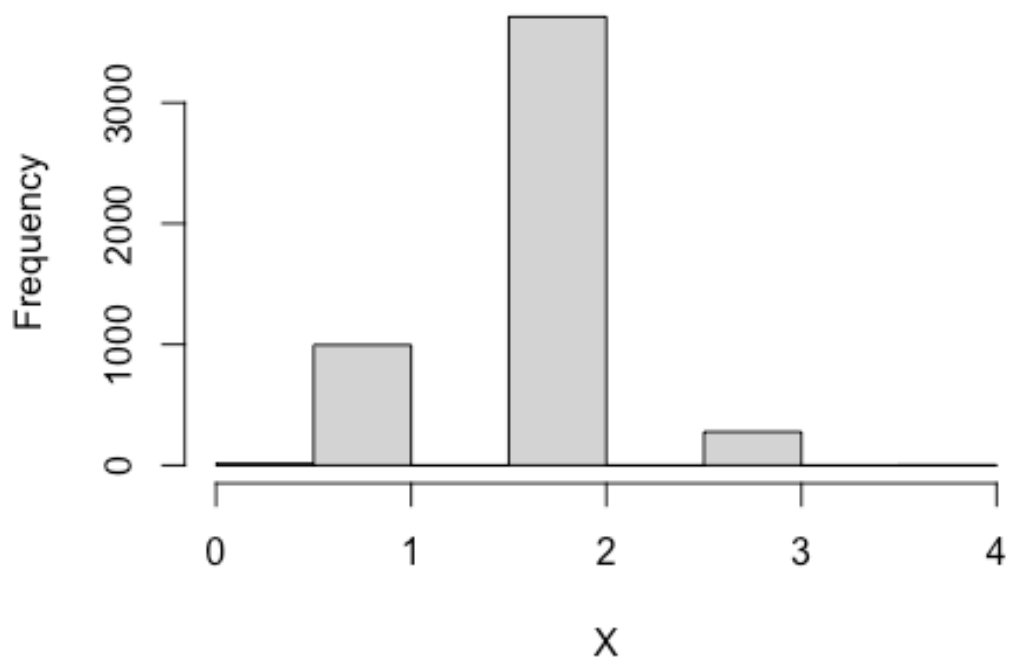
Boxplot of adults
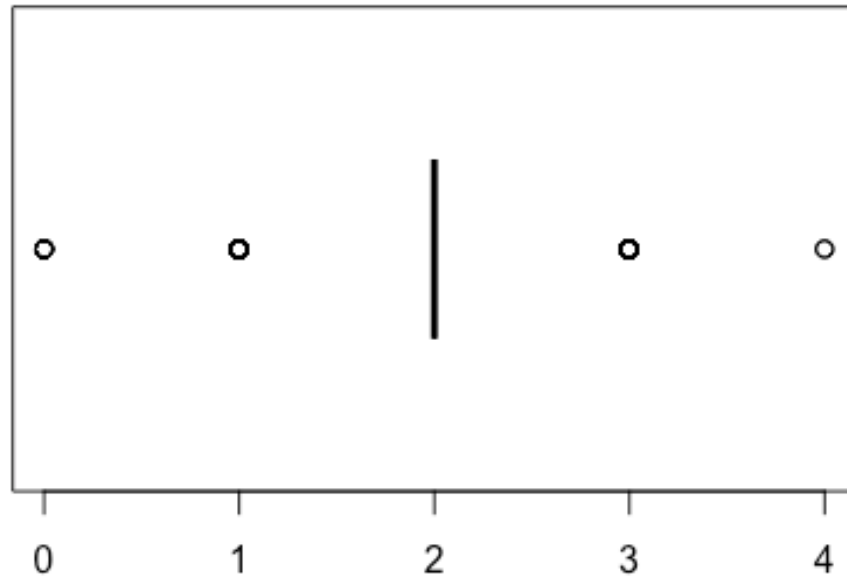

```
## [1] "Extended Summary Statistics"
##    Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##   0.000   2.000   2.000   1.851   2.000   4.000
## [1] "sd:  0.495345448573705"
## [1] "vc:  0.26755182487507"
## [1] "variable  11 : children"
```

Histogram of children
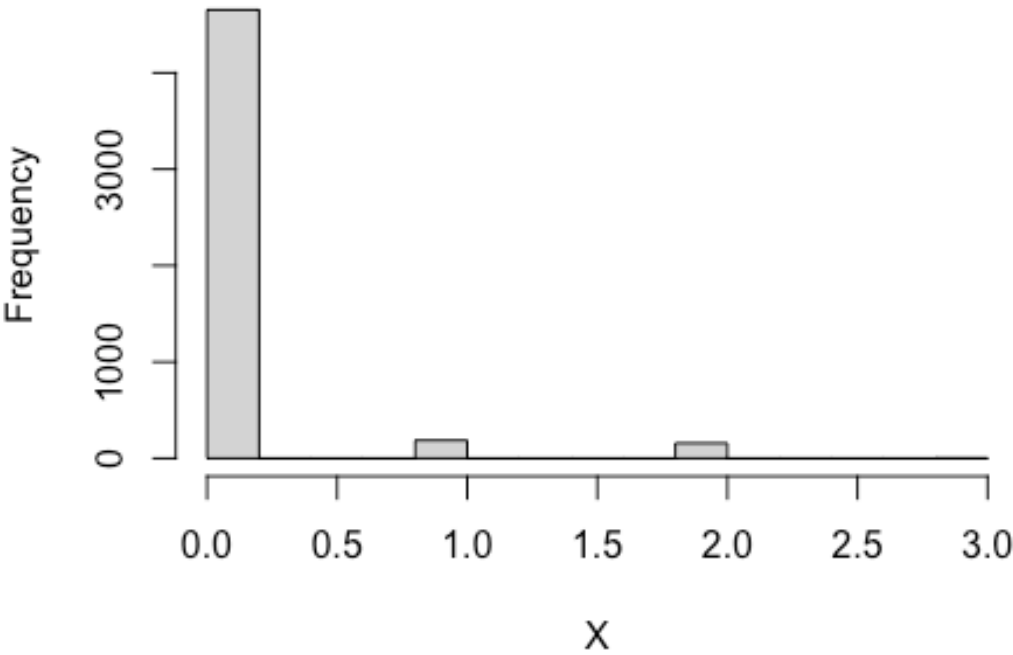
Boxplot of children
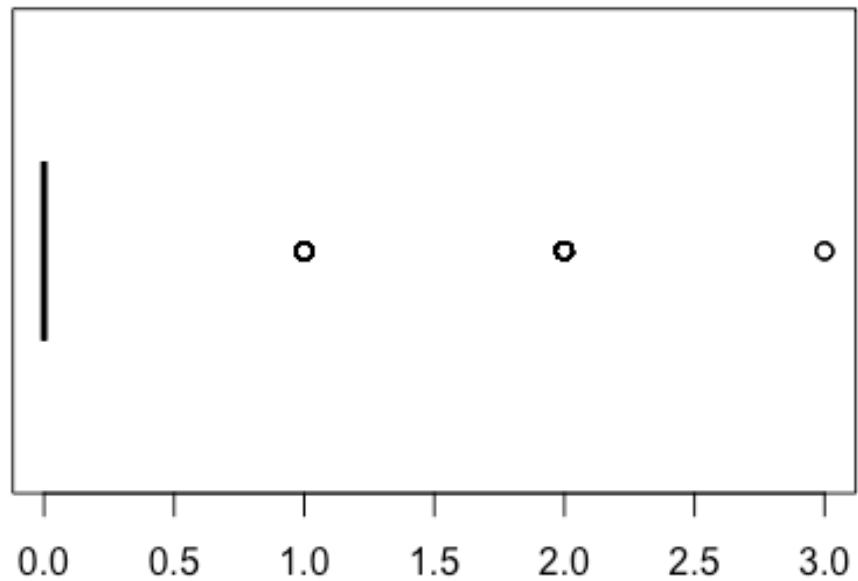

```
## [1] "Extended Summary Statistics"
##    Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##  0.0000  0.0000  0.0000  0.1018  0.0000  3.0000
## [1] "sd:  0.397326482463393"
## [1] "vc:  3.90301063323569"
## [1] "variable  12 : babies"
```

Histogram of babies
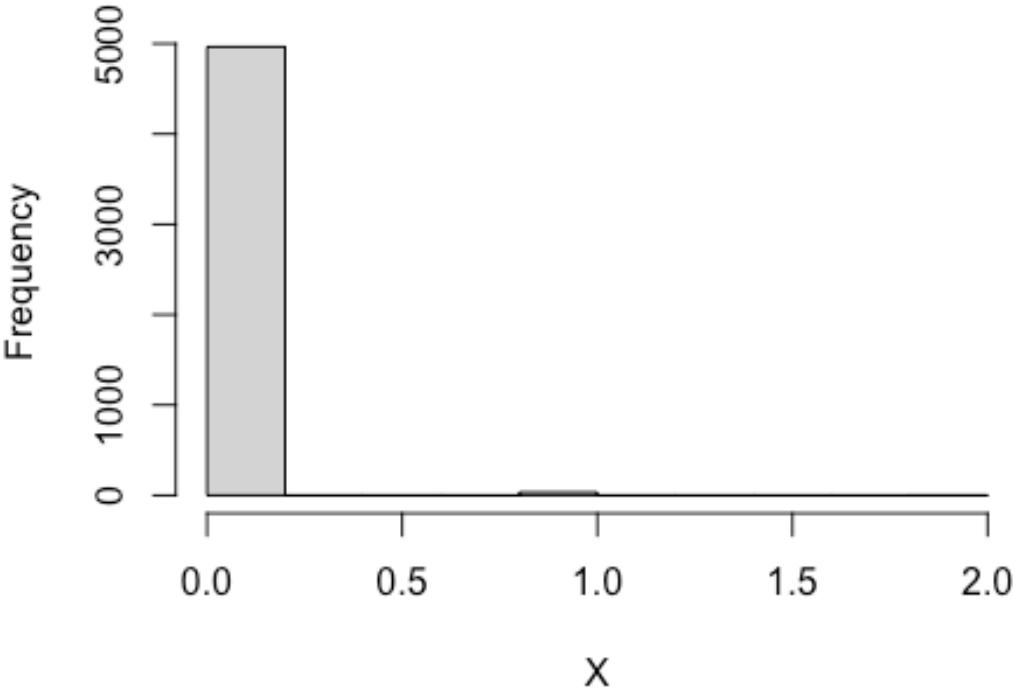
Boxplot of babies
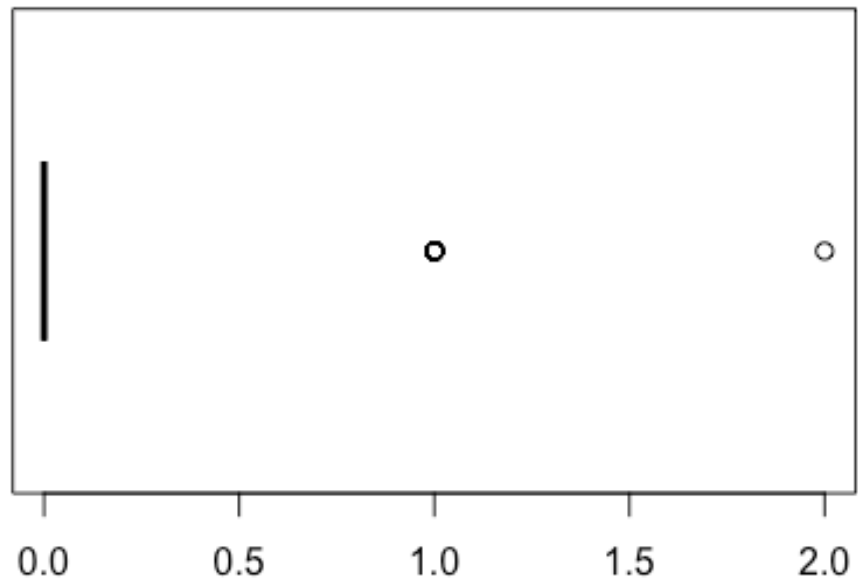

```
## [1] "Extended Summary Statistics"
##    Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##  0.0000  0.0000  0.0000  0.0072  0.0000  2.0000
## [1] "sd:  0.0868888366476776"
## [1] "vc:  12.0678939788441"
## [1] "variable  13 : meal"
```

Pie of meal
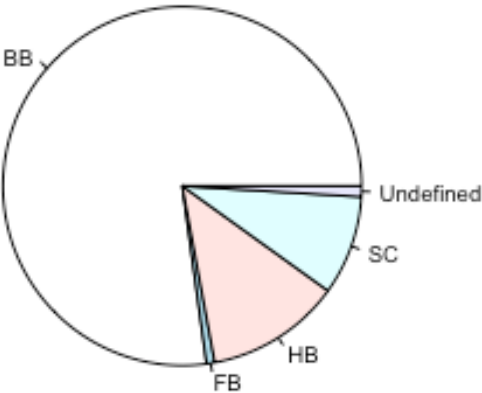
Barplot of meal
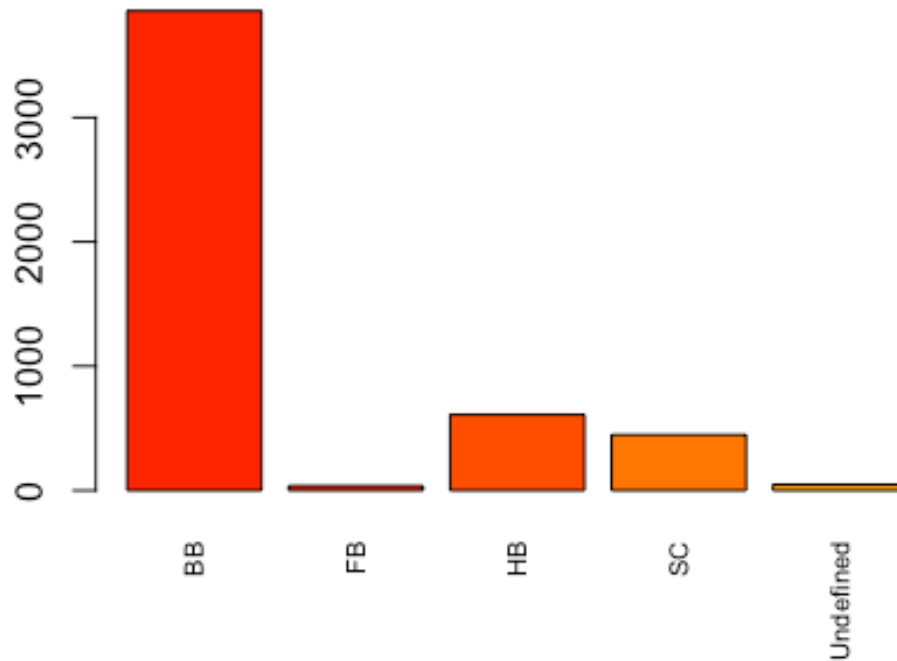

```
## [1] "Number of modalities:  5"
## [1] "Frequency table"
##
##        BB        FB        HB        SC Undefined
##      3858        37       609       448        48
## [1] "Relative frequency table (proportions)"
##
##        BB        FB        HB        SC Undefined
##    0.7716    0.0074    0.1218    0.0896    0.0096
## [1] "Frequency table sorted"
##
##        BB        HB        SC Undefined        FB
##      3858       609       448        48        37
## [1] "Relative frequency table (proportions) sorted"
##
##        BB        HB        SC Undefined        FB
##    0.7716    0.1218    0.0896    0.0096    0.0074
## [1] "variable  14 : country"
```

Pie of country
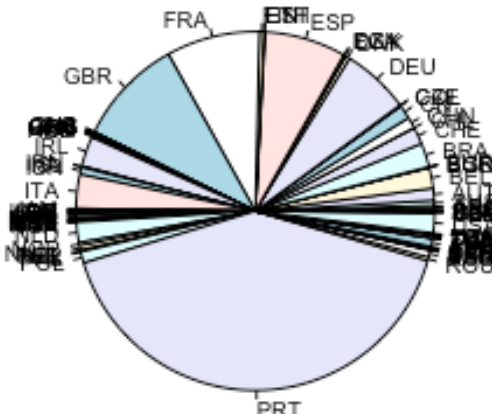
Barplot of country
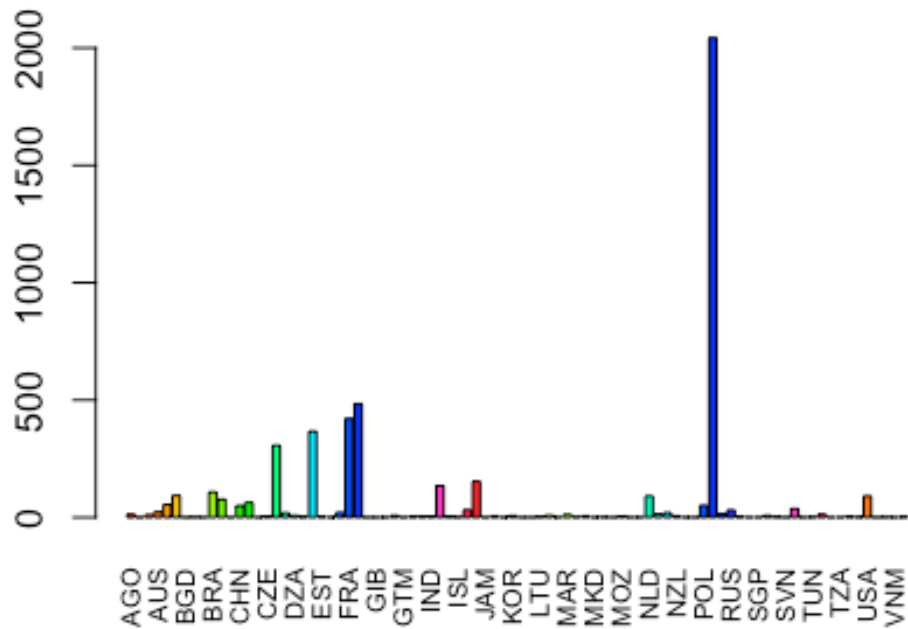

```
## [1] "Number of modalities:  86"
## [1] "Frequency table"
##
##  AGO  ARE  ARG  AUS  AUT  BEL  BGD  BGR  BHR  BRA  CHE  CHL  CHN   CN
COL  CZE
##   13    1   11   23   54   93    1    2    1  108   77    1   50   63
1    4
##  DEU  DNK  DZA  EGY  ESP  EST  ETH  FIN  FRA  GBR  GHA  GIB  GNB  GRC
GTM  HRV
##  307   19    8    3  367    3    1   21  421  484    1    1    1    8
1    4
##  HUN  IND  IRL  IRN  ISL  ISR  ITA  JAM  JPN  KAZ  KOR  LBN  LIE  LTU
LUX  LVA
##    5    5  135    4    2   32  153    1    6    1    7    1    1    3
9    1
##  MAR  MDV  MEX  MKD  MLT  MNE  MOZ  MYS  NGA  NLD  NOR NULL  NZL  PER
PHL  POL
##   12    2    6    1    2    1    5    1    1   91   14   20    6    1
1   51
##  PRT  ROU  RUS  SAU  SEN  SGP  SRB  SVK  SVN  SWE  THA  TUN  TUR  TWN
TZA  UKR
## 2043   16   31    3    1    1    8    3    1   37    1    2   13    1
1    4
```

```
##   URY   USA   UZB   VEN   VNM   ZAF
##     2    91     1     2     1     3
## [1] "Relative frequency table (proportions)"
##
##    AGO    ARE    ARG    AUS    AUT    BEL    BGD    BGR    BHR    BRA
CHE
## 0.0026 0.0002 0.0022 0.0046 0.0108 0.0186 0.0002 0.0004 0.0002 0.0216
0.0154
##    CHL    CHN     CN    COL    CZE    DEU    DNK    DZA    EGY    ESP
EST
## 0.0002 0.0100 0.0126 0.0002 0.0008 0.0614 0.0038 0.0016 0.0006 0.0734
0.0006
##    ETH    FIN    FRA    GBR    GHA    GIB    GNB    GRC    GTM    HRV
HUN
## 0.0002 0.0042 0.0842 0.0968 0.0002 0.0002 0.0002 0.0016 0.0002 0.0008
0.0010
##    IND    IRL    IRN    ISL    ISR    ITA    JAM    JPN    KAZ    KOR
LBN
## 0.0010 0.0270 0.0008 0.0004 0.0064 0.0306 0.0002 0.0012 0.0002 0.0014
0.0002
##    LIE    LTU    LUX    LVA    MAR    MDV    MEX    MKD    MLT    MNE
MOZ
## 0.0002 0.0006 0.0018 0.0002 0.0024 0.0004 0.0012 0.0002 0.0004 0.0002
0.0010
##    MYS    NGA    NLD    NOR   NULL    NZL    PER    PHL    POL    PRT
ROU
## 0.0002 0.0002 0.0182 0.0028 0.0040 0.0012 0.0002 0.0002 0.0102 0.4086
0.0032
##    RUS    SAU    SEN    SGP    SRB    SVK    SVN    SWE    THA    TUN
TUR
## 0.0062 0.0006 0.0002 0.0002 0.0016 0.0006 0.0002 0.0074 0.0002 0.0004
0.0026
##    TWN    TZA    UKR    URY    USA    UZB    VEN    VNM    ZAF
## 0.0002 0.0002 0.0008 0.0004 0.0182 0.0002 0.0004 0.0002 0.0006
## [1] "Frequency table sorted"
##
##  PRT  GBR  FRA  ESP  DEU  ITA  IRL  BRA  BEL  NLD  USA  CHE   CN  AUT
POL  CHN
## 2043  484  421  367  307  153  135  108   93   91   91   77   63   54
51   50
##  SWE  ISR  RUS  AUS  FIN NULL  DNK  ROU  NOR  AGO  TUR  MAR  ARG  LUX
DZA  GRC
##   37   32   31   23   21   20   19   16   14   13   13   12   11    9
8    8
##  SRB  KOR  JPN  MEX  NZL  HUN  IND  MOZ  CZE  HRV  IRN  UKR  EGY  EST
LTU  SAU
##    8    7    6    6    6    5    5    5    4    4    4    4    3    3
3    3
##  SVK  ZAF  BGR  ISL  MDV  MLT  TUN  URY  VEN  ARE  BGD  BHR  CHL  COL
ETH  GHA
```

```
##    3    3    2    2    2    2    2    2    2    1    1    1    1    1
1    1
## GIB  GNB  GTM  JAM  KAZ  LBN  LIE  LVA  MKD  MNE  MYS  NGA  PER  PHL
SEN  SGP
##    1    1    1    1    1    1    1    1    1    1    1    1    1    1
1    1
## SVN  THA  TWN  TZA  UZB  VNM
##    1    1    1    1    1    1
## [1] "Relative frequency table (proportions) sorted"
##
##    PRT    GBR    FRA    ESP    DEU    ITA    IRL    BRA    BEL    NLD
USA
## 0.4086 0.0968 0.0842 0.0734 0.0614 0.0306 0.0270 0.0216 0.0186 0.0182
0.0182
##    CHE     CN    AUT    POL    CHN    SWE    ISR    RUS    AUS    FIN
NULL
## 0.0154 0.0126 0.0108 0.0102 0.0100 0.0074 0.0064 0.0062 0.0046 0.0042
0.0040
##    DNK    ROU    NOR    AGO    TUR    MAR    ARG    LUX    DZA    GRC
SRB
## 0.0038 0.0032 0.0028 0.0026 0.0026 0.0024 0.0022 0.0018 0.0016 0.0016
0.0016
##    KOR    JPN    MEX    NZL    HUN    IND    MOZ    CZE    HRV    IRN
UKR
## 0.0014 0.0012 0.0012 0.0012 0.0010 0.0010 0.0010 0.0008 0.0008 0.0008
0.0008
##    EGY    EST    LTU    SAU    SVK    ZAF    BGR    ISL    MDV    MLT
TUN
## 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0004 0.0004 0.0004 0.0004
0.0004
##    URY    VEN    ARE    BGD    BHR    CHL    COL    ETH    GHA    GIB
GNB
## 0.0004 0.0004 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002
0.0002
##    GTM    JAM    KAZ    LBN    LIE    LVA    MKD    MNE    MYS    NGA
PER
## 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002
0.0002
##    PHL    SEN    SGP    SVN    THA    TWN    TZA    UZB    VNM
## 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002
## [1] "variable  15 : market_segment"
```

Pie of market_segment

Groups

Direct

Offline TA/TO

Corporate

Complementary
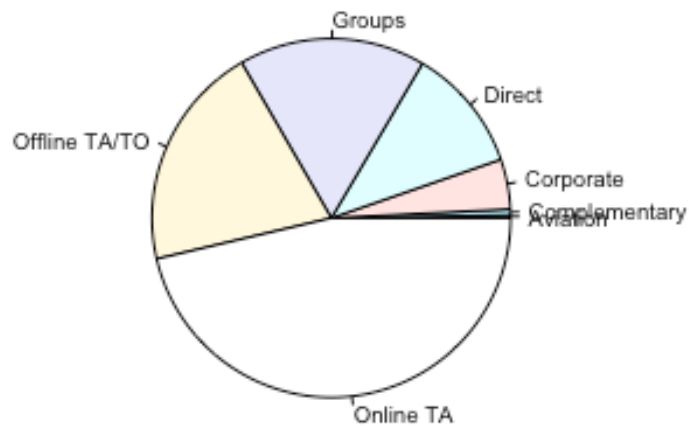
Aviation

Online TA

Barplot of market_segment
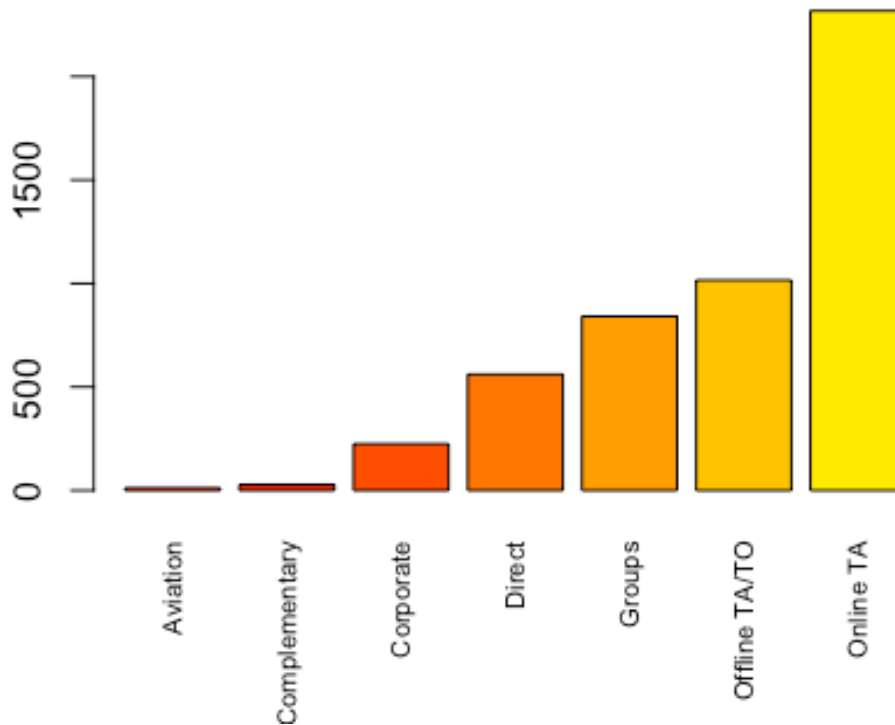

```
## [1] "Number of modalities:  7"
## [1] "Frequency table"
##
##      Aviation Complementary      Corporate       Direct        Groups
##            12           28            225          561           841
## Offline TA/TO    Online TA
##          1016         2317
## [1] "Relative frequency table (proportions)"
##
##      Aviation Complementary      Corporate       Direct        Groups
##        0.0024       0.0056         0.0450       0.1122        0.1682
## Offline TA/TO    Online TA
##        0.2032       0.4634
## [1] "Frequency table sorted"
##
##     Online TA Offline TA/TO         Groups       Direct     Corporate
##          2317          1016            841          561           225
## Complementary      Aviation
##            28            12
## [1] "Relative frequency table (proportions) sorted"
##
##     Online TA Offline TA/TO         Groups       Direct     Corporate
##        0.4634       0.2032         0.1682       0.1122        0.0450
```

```
## Complementary      Aviation
##         0.0056         0.0024
## [1] "variable  16 : distribution_channel"
```

Pie of distribution_channel
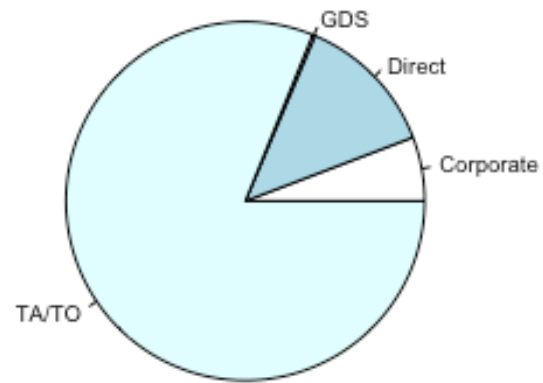
Barplot of distribution_channel
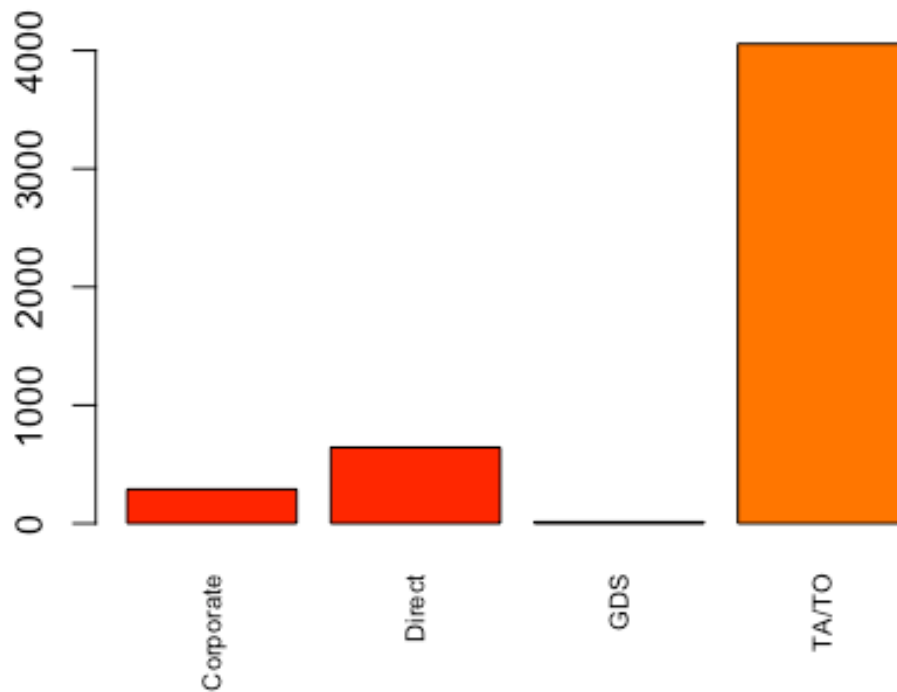

```
## [1] "Number of modalities:  4"
## [1] "Frequency table"
##
## Corporate    Direct       GDS     TA/TO
##       289       643        12      4056
## [1] "Relative frequency table (proportions)"
##
## Corporate    Direct       GDS     TA/TO
##    0.0578    0.1286    0.0024    0.8112
## [1] "Frequency table sorted"
##
##     TA/TO    Direct Corporate       GDS
##      4056       643       289        12
## [1] "Relative frequency table (proportions) sorted"
##
##     TA/TO    Direct Corporate       GDS
##    0.8112    0.1286    0.0578    0.0024
## [1] "variable  17 : is_repeated_guest"
```

Histogram of is_repeated_guest
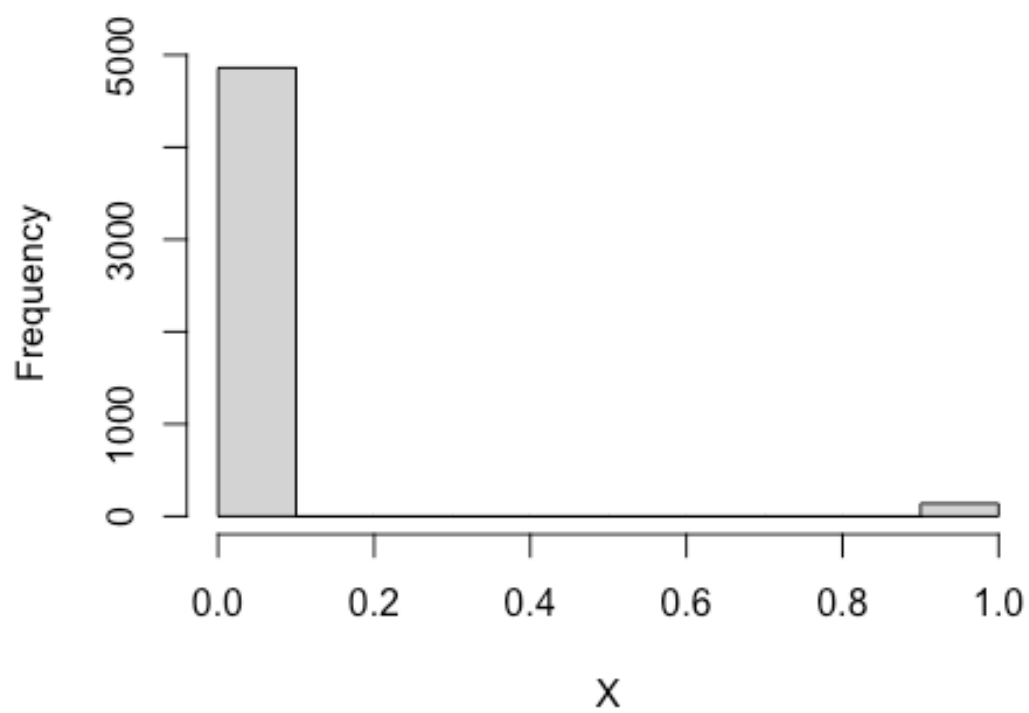
Boxplot of is_repeated_guest
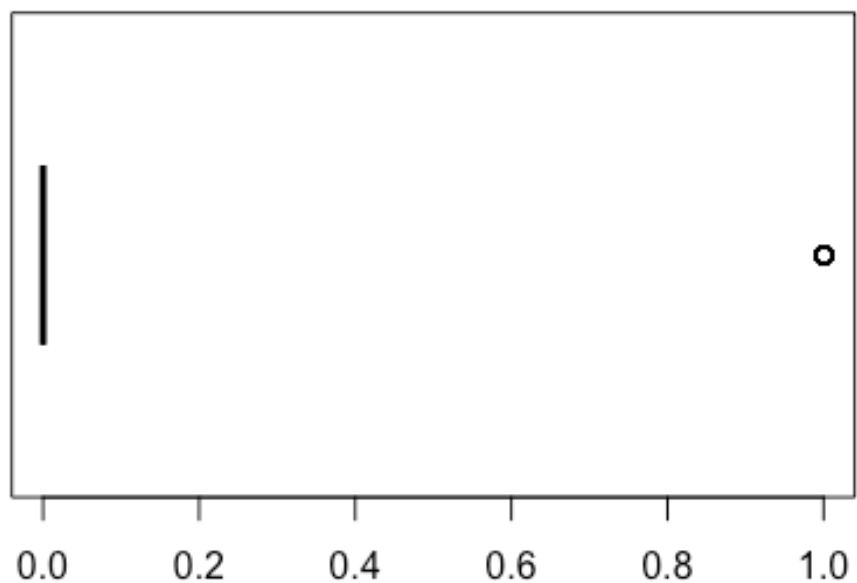

```
## [1] "Extended Summary Statistics"
##    Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##  0.0000  0.0000  0.0000  0.0278  0.0000  1.0000
## [1] "sd:  0.164415834131943"
## [1] "vc:  5.91423863783968"
## [1] "variable  18 : previous_cancellations"
```

Histogram of previous_cancellations
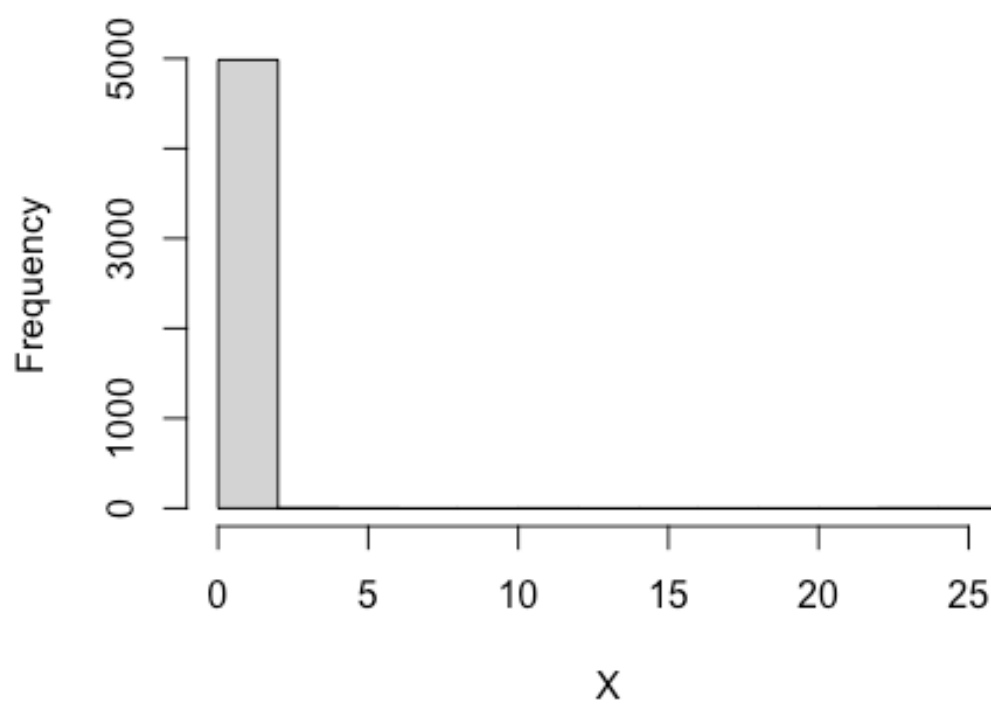
Boxplot of previous_cancellations
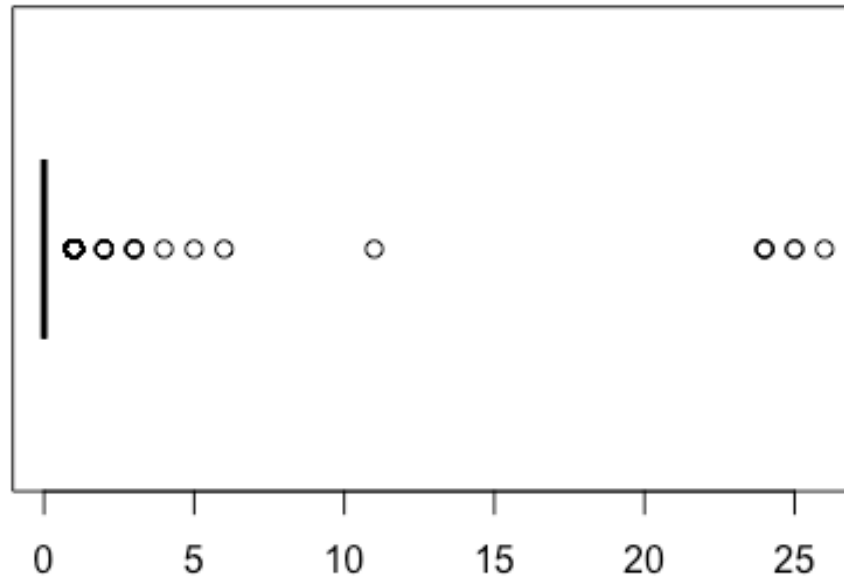

```
## [1] "Extended Summary Statistics"
##    Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##    0.00    0.00    0.00    0.09    0.00   26.00
## [1] "sd:  0.908220773267491"
## [1] "vc:  10.0913419251943"
## [1] "variable  19 : previous_bookings_not_canceled"
```

Histogram of previous_bookings_not_canceled
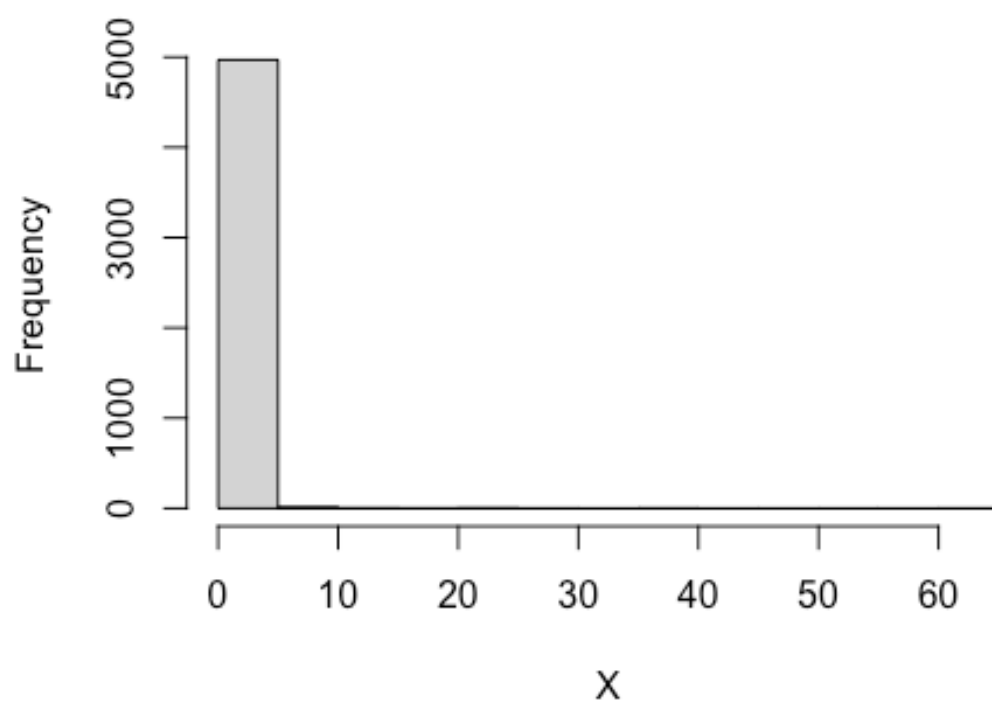
Boxplot of previous_bookings_not_canceled
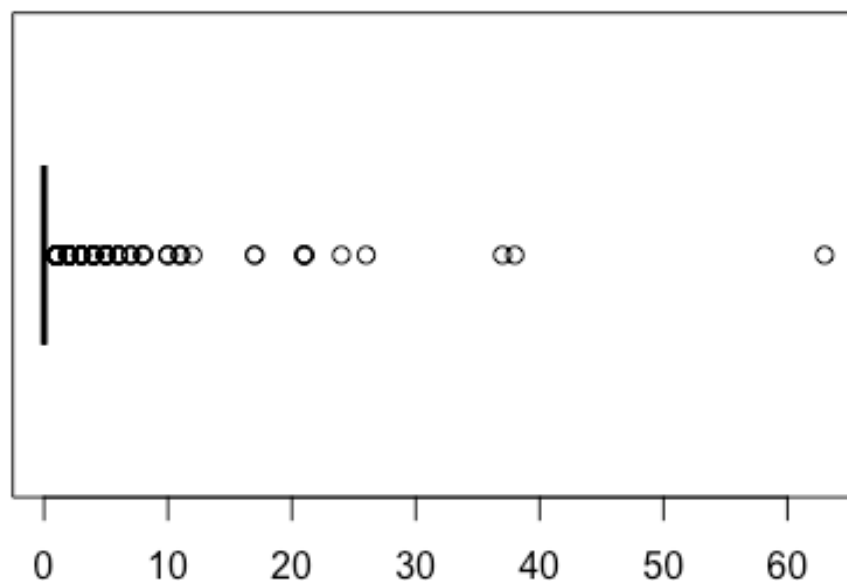

```
## [1] "Extended Summary Statistics"
##    Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##   0.000   0.000   0.000   0.137   0.000  63.000
## [1] "sd:  1.56828661429629"
## [1] "vc:  11.4473475496079"
## [1] "variable  20 : reserved_room_type"
```

Pie of reserved_room_type
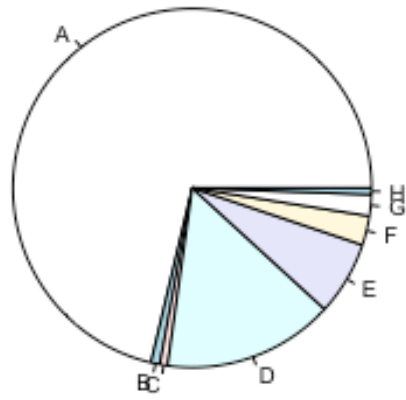
Barplot of reserved_room_type
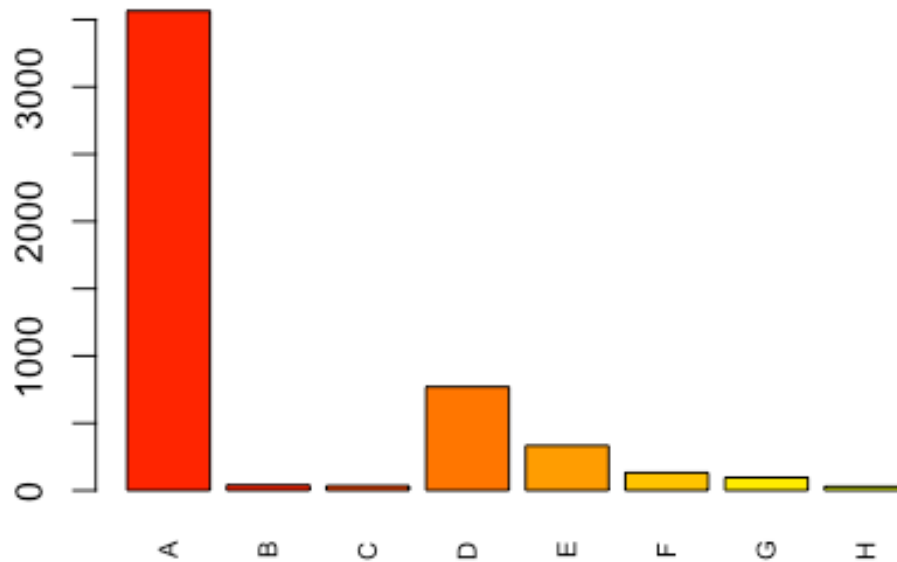

```
## [1] "Number of modalities:  8"
## [1] "Frequency table"
##
##    A    B    C    D    E    F    G    H
## 3565   40   35  770  333  132   96   29
## [1] "Relative frequency table (proportions)"
##
##      A      B      C      D      E      F      G      H
## 0.7130 0.0080 0.0070 0.1540 0.0666 0.0264 0.0192 0.0058
## [1] "Frequency table sorted"
##
##    A    D    E    F    G    B    C    H
## 3565  770  333  132   96   40   35   29
## [1] "Relative frequency table (proportions) sorted"
##
##      A      D      E      F      G      B      C      H
## 0.7130 0.1540 0.0666 0.0264 0.0192 0.0080 0.0070 0.0058
## [1] "variable  21 : assigned_room_type"
```

Pie of assigned_room_type
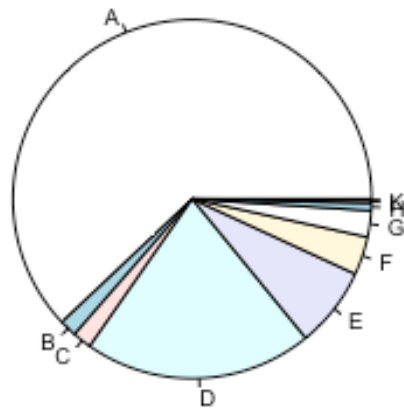
Barplot of assigned_room_type
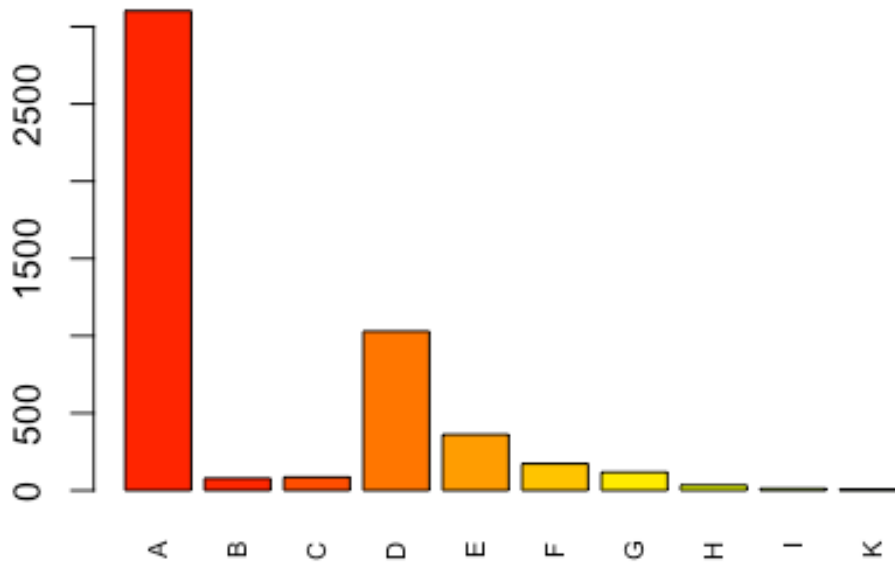

```
## [1] "Number of modalities:  10"
## [1] "Frequency table"
##
##    A    B    C    D    E    F    G    H    I    K
## 3102   78   86 1029  362  173  118   34   12    6
## [1] "Relative frequency table (proportions)"
##
##      A      B      C      D      E      F      G      H      I      K
## 0.6204 0.0156 0.0172 0.2058 0.0724 0.0346 0.0236 0.0068 0.0024 0.0012
## [1] "Frequency table sorted"
##
##    A    D    E    F    G    C    B    H    I    K
## 3102 1029  362  173  118   86   78   34   12    6
## [1] "Relative frequency table (proportions) sorted"
##
##      A      D      E      F      G      C      B      H      I      K
## 0.6204 0.2058 0.0724 0.0346 0.0236 0.0172 0.0156 0.0068 0.0024 0.0012
## [1] "variable  22 : booking_changes"
```

Histogram of booking_changes
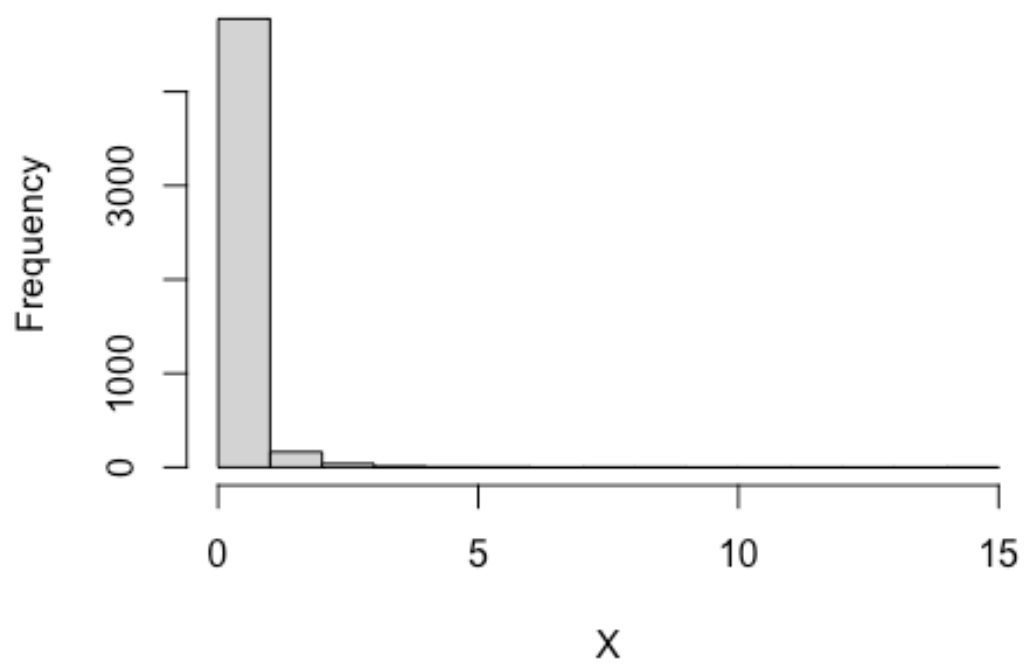
Boxplot of booking_changes
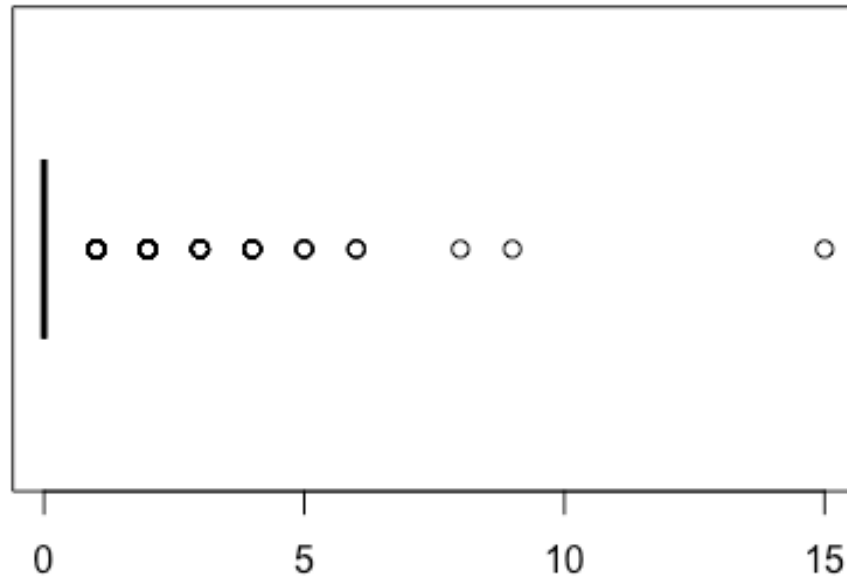

```
## [1] "Extended Summary Statistics"
##    Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##  0.0000  0.0000  0.0000  0.2114  0.0000 15.0000
## [1] "sd:  0.638115568134534"
## [1] "vc:  3.01852208199874"
## [1] "variable  23 : deposit_type"
```

Pie of deposit_type

No Deposit

Refundable
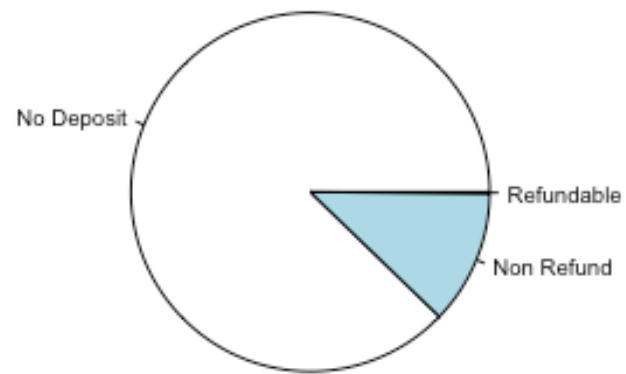
Non Refund

Barplot of deposit_type
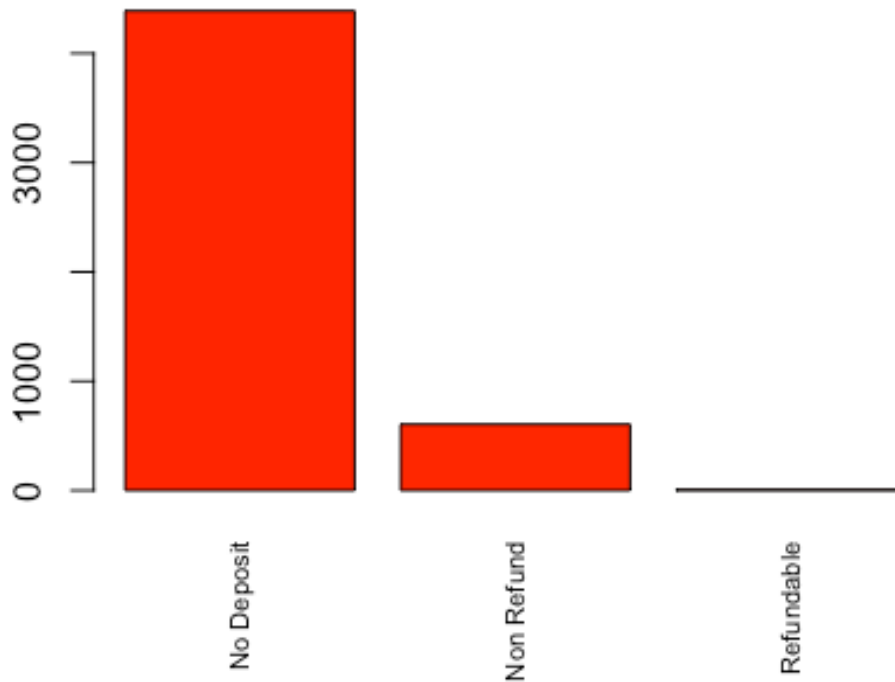

```
## [1] "Number of modalities:  3"
## [1] "Frequency table"
##
## No Deposit Non Refund Refundable
##      4389          605          6
## [1] "Relative frequency table (proportions)"
##
## No Deposit Non Refund Refundable
##    0.8778       0.1210     0.0012
## [1] "Frequency table sorted"
##
## No Deposit Non Refund Refundable
##      4389          605          6
## [1] "Relative frequency table (proportions) sorted"
##
## No Deposit Non Refund Refundable
##    0.8778       0.1210     0.0012
## [1] "variable  24 : agent"
```

Pie of agent
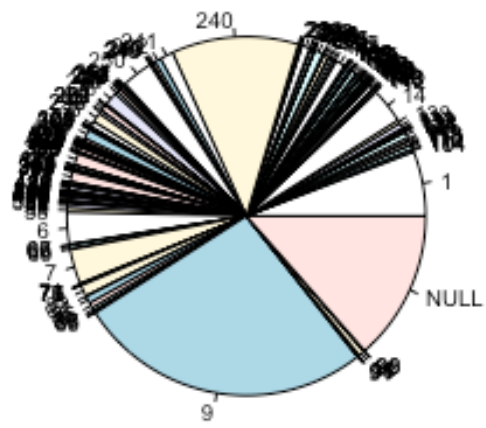
Barplot of agent
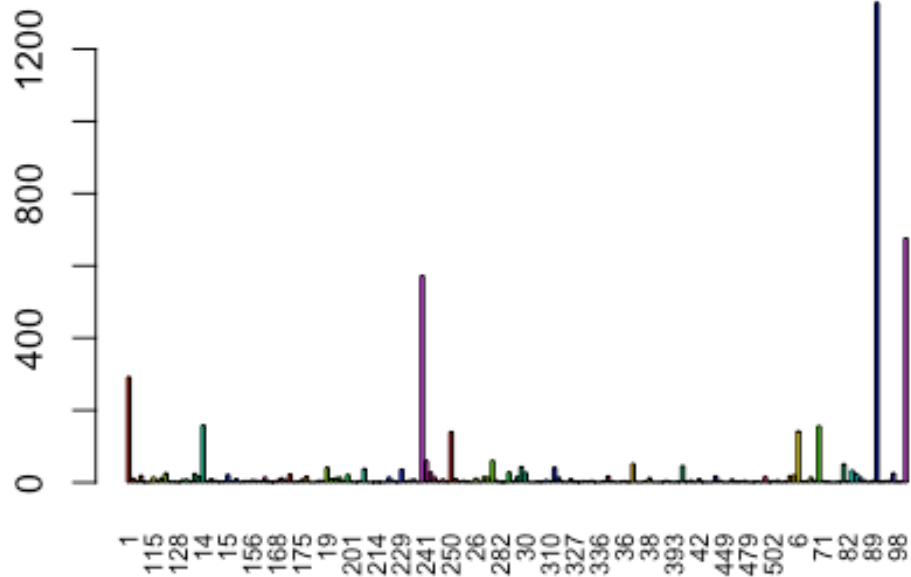

```
## [1] "Number of modalities:  189"
## [1] "Frequency table"
##
##     1    10   104    11   111   112   115   118   119    12   121   126   128    13
132   133
##   292    11     4    19     1     1    14     6    13    26     2     2     1     7
8     2
##   134   138    14   142   143   146   147   149    15   151   152   153   154   155
156   157
##    24    16   158     4     9     5     2     2    21     3     9     1     4     4
7     5
##   159    16   162   167   168    17   170   171   173   174   175   177   181   183
184   185
##     4    14     2     1     6    12     7    22     1     3     8    16     1     1
5     5
##    19   191   195   196     2    20   201   205   208    21   210   213   214   215
219    22
##    41     9    12    14     5    21     2     1     4    38     1     1     1     1
1    14
##   220   223   229    23   234   236    24   240   241   242   243   245   248   249
250   251
##     5     1    36     2     6     8     1   572    60    28    14     2     8     2
140    10
```

```
##   252   253   254   257    26   262    27   273    28   281   282   286    29   296
## 298     3
##     2     5     2     1    11     1    15    14    60     6     1     1    28     2
##    15    43
##    30   305   306   307   308    31   310   314   315   323   325   326   327   328
##    33   330
##    27     1     1     2     2     7     3    41    14     2     1     9     2     1
##     4     3
##   332   334   336   339    34    35   350   359    36   368    37   371   375   378
##    38   385
##     5     1     1     4    17     3     1     2     4     1    52     1     1     3
##    13     1
##   387   388    39   390   393   394    40    41   410   411    42   423   430   436
##    44   440
##     1     1     5     2     1     2    46     2     6     1     9     1     1     1
##    17     5
##   449   459   464   467   468    47   479   492   495   497     5    50   502    52
##    53   531
##     1     1     8     2     3     5     1     1     3     1    15     1     4     6
##     1     3
##    56    58     6    66    67    68    69     7    71    74    75    77    79     8
##    82    83
##    18    20   142     3     3    14     5   156     4     2     1     1     2    51
##     3    33
##    85    86    87    88    89     9    91    94    95    96    98    99  NULL
##    24    14     6     1     5  1328     2     4     5    26     2     3   676
## [1] "Relative frequency table (proportions)"
##
##       1      10     104      11     111     112     115     118     119      12
## 121
## 0.0584  0.0022  0.0008  0.0038  0.0002  0.0002  0.0028  0.0012  0.0026  0.0052
## 0.0004
##     126     128      13     132     133     134     138      14     142     143
## 146
## 0.0004  0.0002  0.0014  0.0016  0.0004  0.0048  0.0032  0.0316  0.0008  0.0018
## 0.0010
##     147     149      15     151     152     153     154     155     156     157
## 159
## 0.0004  0.0004  0.0042  0.0006  0.0018  0.0002  0.0008  0.0008  0.0014  0.0010
## 0.0008
##      16     162     167     168      17     170     171     173     174     175
## 177
## 0.0028  0.0004  0.0002  0.0012  0.0024  0.0014  0.0044  0.0002  0.0006  0.0016
## 0.0032
##     181     183     184     185      19     191     195     196       2      20
## 201
## 0.0002  0.0002  0.0010  0.0010  0.0082  0.0018  0.0024  0.0028  0.0010  0.0042
## 0.0004
##     205     208      21     210     213     214     215     219      22     220
## 223
```

```
## 0.0002 0.0008 0.0076 0.0002 0.0002 0.0002 0.0002 0.0002 0.0028 0.0010
0.0002
##     229     23    234    236     24    240    241    242    243    245
248
## 0.0072 0.0004 0.0012 0.0016 0.0002 0.1144 0.0120 0.0056 0.0028 0.0004
0.0016
##     249    250    251    252    253    254    257     26    262     27
273
## 0.0004 0.0280 0.0020 0.0004 0.0010 0.0004 0.0002 0.0022 0.0002 0.0030
0.0028
##      28    281    282    286     29    296    298      3     30    305
306
## 0.0120 0.0012 0.0002 0.0002 0.0056 0.0004 0.0030 0.0086 0.0054 0.0002
0.0002
##     307    308     31    310    314    315    323    325    326    327
328
## 0.0004 0.0004 0.0014 0.0006 0.0082 0.0028 0.0004 0.0002 0.0018 0.0004
0.0002
##      33    330    332    334    336    339     34     35    350    359
36
## 0.0008 0.0006 0.0010 0.0002 0.0002 0.0008 0.0034 0.0006 0.0002 0.0004
0.0008
##     368     37    371    375    378     38    385    387    388     39
390
## 0.0002 0.0104 0.0002 0.0002 0.0006 0.0026 0.0002 0.0002 0.0002 0.0010
0.0004
##     393    394     40     41    410    411     42    423    430    436
44
## 0.0002 0.0004 0.0092 0.0004 0.0012 0.0002 0.0018 0.0002 0.0002 0.0002
0.0034
##     440    449    459    464    467    468     47    479    492    495
497
## 0.0010 0.0002 0.0002 0.0016 0.0004 0.0006 0.0010 0.0002 0.0002 0.0006
0.0002
##       5     50    502     52     53    531     56     58      6     66
67
## 0.0030 0.0002 0.0008 0.0012 0.0002 0.0006 0.0036 0.0040 0.0284 0.0006
0.0006
##      68     69      7     71     74     75     77     79      8     82
83
## 0.0028 0.0010 0.0312 0.0008 0.0004 0.0002 0.0002 0.0004 0.0102 0.0006
0.0066
##      85     86     87     88     89      9     91     94     95     96
98
## 0.0048 0.0028 0.0012 0.0002 0.0010 0.2656 0.0004 0.0008 0.0010 0.0052
0.0004
##      99   NULL
## 0.0006 0.1352
## [1] "Frequency table sorted"
##
```

```
##     9  NULL   240     1    14     7     6   250   241    28    37     8    40     3
19   314
## 1328   676   572   292   158   156   142   140    60    60    52    51    46    43
41    41
##    21   229    83   242    29    30    12    96   134    85   171    15    20    58
11    56
##    38    36    33    28    28    27    26    26    24    24    22    21    21    20
19    18
##    34    44   138   177    27   298     5   115    16   196    22   243   273   315
68    86
##    17    17    16    16    15    15    15    14    14    14    14    14    14    14
14    14
##   119    38    17   195    10    26   251   143   152   191   326    42   132   175
236   248
##    13    13    12    12    11    11    10     9     9     9     9     9     8     8
8     8
##   464    13   156   170    31   118   168   234   281   410    52    87   146   157
184   185
##     8     7     7     7     7     6     6     6     6     6     6     6     5     5
5     5
##     2   220   253   332    39   440    47    69    89    95   104   142   154   155
159   208
##     5     5     5     5     5     5     5     5     5     5     4     4     4     4
4     4
##    33   339    36   502    71    94   151   174   310   330    35   378   468   495
531    66
##     4     4     4     4     4     4     3     3     3     3     3     3     3     3
3     3
##    67    82    99   121   126   133   147   149   162   201    23   245   249   252
254   296
##     3     3     3     2     2     2     2     2     2     2     2     2     2     2
2     2
##   307   308   323   327   359   390   394    41   467    74    79    91    98   111
112   128
##     2     2     2     2     2     2     2     2     2     2     2     2     2     1
1     1
##   153   167   173   181   183   205   210   213   214   215   219   223    24   257
262   282
##     1     1     1     1     1     1     1     1     1     1     1     1     1     1
1     1
##   286   305   306   325   328   334   336   350   368   371   375   385   387   388
393   411
##     1     1     1     1     1     1     1     1     1     1     1     1     1     1
1     1
##   423   430   436   449   459   479   492   497    50    53    75    77    88
##     1     1     1     1     1     1     1     1     1     1     1     1     1
## [1] "Relative frequency table (proportions) sorted"
##
##         9    NULL     240       1      14       7       6     250     241      28
37
```

```
## 0.2656 0.1352 0.1144 0.0584 0.0316 0.0312 0.0284 0.0280 0.0120 0.0120
0.0104
##      8     40      3     19    314     21    229     83    242     29
30
## 0.0102 0.0092 0.0086 0.0082 0.0082 0.0076 0.0072 0.0066 0.0056 0.0056
0.0054
##     12     96    134     85    171     15     20     58     11     56
34
## 0.0052 0.0052 0.0048 0.0048 0.0044 0.0042 0.0042 0.0040 0.0038 0.0036
0.0034
##     44    138    177     27    298      5    115     16    196     22
243
## 0.0034 0.0032 0.0032 0.0030 0.0030 0.0030 0.0028 0.0028 0.0028 0.0028
0.0028
##    273    315     68     86    119     38     17    195     10     26
251
## 0.0028 0.0028 0.0028 0.0028 0.0026 0.0026 0.0024 0.0024 0.0022 0.0022
0.0020
##    143    152    191    326     42    132    175    236    248    464
13
## 0.0018 0.0018 0.0018 0.0018 0.0018 0.0016 0.0016 0.0016 0.0016 0.0016
0.0014
##    156    170     31    118    168    234    281    410     52     87
146
## 0.0014 0.0014 0.0014 0.0012 0.0012 0.0012 0.0012 0.0012 0.0012 0.0012
0.0010
##    157    184    185      2    220    253    332     39    440     47
69
## 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010 0.0010
0.0010
##     89     95    104    142    154    155    159    208     33    339
36
## 0.0010 0.0010 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008 0.0008
0.0008
##    502     71     94    151    174    310    330     35    378    468
495
## 0.0008 0.0008 0.0008 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006
0.0006
##    531     66     67     82     99    121    126    133    147    149
162
## 0.0006 0.0006 0.0006 0.0006 0.0006 0.0004 0.0004 0.0004 0.0004 0.0004
0.0004
##    201     23    245    249    252    254    296    307    308    323
327
## 0.0004 0.0004 0.0004 0.0004 0.0004 0.0004 0.0004 0.0004 0.0004 0.0004
0.0004
##    359    390    394     41    467     74     79     91     98    111
112
## 0.0004 0.0004 0.0004 0.0004 0.0004 0.0004 0.0004 0.0004 0.0004 0.0002
0.0002
```

```
##     128    153    167    173    181    183    205    210    213    214
215
## 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002
0.0002
##     219    223     24    257    262    282    286    305    306    325
328
## 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002
0.0002
##     334    336    350    368    371    375    385    387    388    393
411
## 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002
0.0002
##     423    430    436    449    459    479    492    497     50     53
75
## 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002
0.0002
##      77     88
## 0.0002 0.0002
## [1] "variable  25 : company"
```

Pie of company

NULL
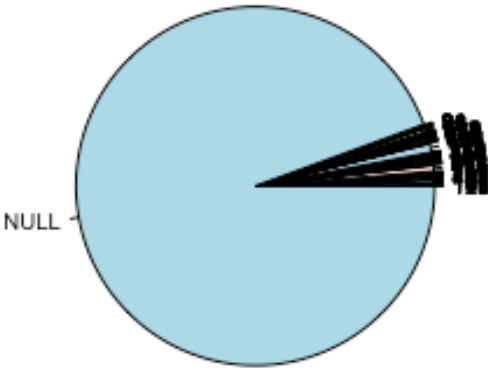
Barplot of company
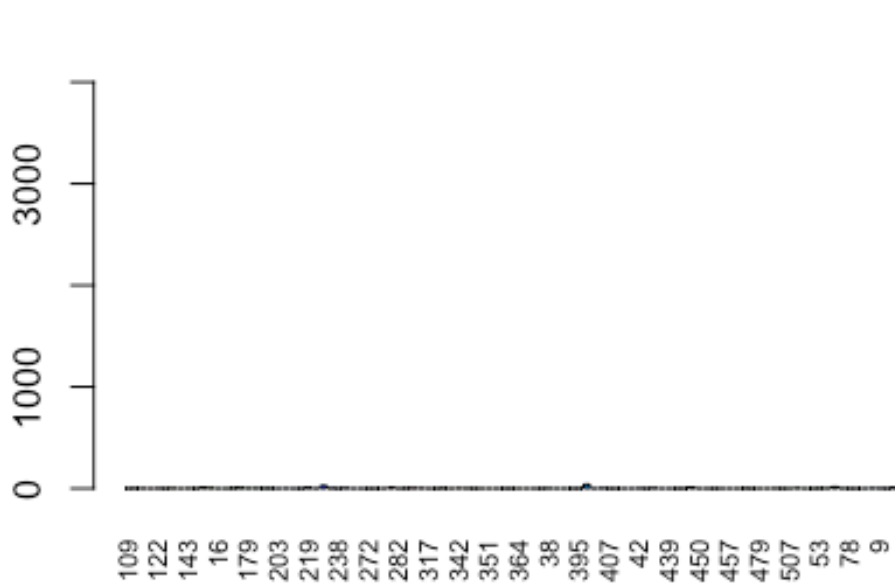

```
## [1] "Number of modalities:  104"
## [1] "Frequency table"
##
##  109  110  113   12  122  130  135  142  143  148  153  154   16  165
169  174
##    1    2    2    1    2    1    3    1    2    1   11    5    1    1
3    6
##  179  197   20  202  203  207  216  217  219  221  223  233  238  242
263  269
##    3    3    2    2    1    2    1    1    7    1   27    3    1    4
1    1
##  272   28  280  281  282  286  307  308  317  329  331  337  342  343
346  348
##    1    1    1    8    1    2    4    3    1    1    3    1    3    2
1    1
##  351  355  356  358  364  367   37  379   38  380  385  388  395   40
401  405
##    1    1    1    1    1    1    1    1    2    1    1    1    1   40
1    3
##  407  408  409  412   42  424   43  435  439  443  448   45  450  451
452  455
##    1    1    1    1    2    1    4    1    1    1    1   11    1    1
1    1
```

```
##   457   458    47   477   479   481   485   498   507    51   513   525    53    62
67    72
##     1     1     2     1     1     1     2     1     1     4     1     1     2     2
15     2
##    78    82    85    86     9    91    94  NULL
##     1     1     1     3     2     1     7  4721
## [1] "Relative frequency table (proportions)"
##
##      109     110     113      12     122     130     135     142     143     148
153
## 0.0002  0.0004  0.0004  0.0002  0.0004  0.0002  0.0006  0.0002  0.0004  0.0002
0.0022
##      154      16     165     169     174     179     197      20     202     203
207
## 0.0010  0.0002  0.0002  0.0006  0.0012  0.0006  0.0006  0.0004  0.0004  0.0002
0.0004
##      216     217     219     221     223     233     238     242     263     269
272
## 0.0002  0.0002  0.0014  0.0002  0.0054  0.0006  0.0002  0.0008  0.0002  0.0002
0.0002
##       28     280     281     282     286     307     308     317     329     331
337
## 0.0002  0.0002  0.0016  0.0002  0.0004  0.0008  0.0006  0.0002  0.0002  0.0006
0.0002
##      342     343     346     348     351     355     356     358     364     367
37
## 0.0006  0.0004  0.0002  0.0002  0.0002  0.0002  0.0002  0.0002  0.0002  0.0002
0.0002
##      379      38     380     385     388     395      40     401     405     407
408
## 0.0002  0.0004  0.0002  0.0002  0.0002  0.0002  0.0080  0.0002  0.0006  0.0002
0.0002
##      409     412      42     424      43     435     439     443     448      45
450
## 0.0002  0.0002  0.0004  0.0002  0.0008  0.0002  0.0002  0.0002  0.0002  0.0022
0.0002
##      451     452     455     457     458      47     477     479     481     485
498
## 0.0002  0.0002  0.0002  0.0002  0.0002  0.0004  0.0002  0.0002  0.0002  0.0004
0.0002
##      507      51     513     525      53      62      67      72      78      82
85
## 0.0002  0.0008  0.0002  0.0002  0.0004  0.0004  0.0030  0.0004  0.0002  0.0002
0.0002
##       86       9      91      94    NULL
## 0.0006  0.0004  0.0002  0.0014  0.9442
## [1] "Frequency table sorted"
##
##  NULL    40   223    67   153    45   281   219    94   174   154   242   307    43
51   135
```

```
## 4721   40   27   15   11   11    8    7    7    6    5    4    4    4
4    3
##  169  179  197  233  308  331  342  405   86  110  113  122  143   20
202  207
##    3    3    3    3    3    3    3    3    3    2    2    2    2    2
2    2
##  286  343   38   42   47  485   53   62   72    9  109   12  130  142
148   16
##    2    2    2    2    2    2    2    2    2    2    1    1    1    1
1    1
##  165  203  216  217  221  238  263  269  272   28  280  282  317  329
337  346
##    1    1    1    1    1    1    1    1    1    1    1    1    1    1
1    1
##  348  351  355  356  358  364  367   37  379  380  385  388  395  401
407  408
##    1    1    1    1    1    1    1    1    1    1    1    1    1    1
1    1
##  409  412  424  435  439  443  448  450  451  452  455  457  458  477
479  481
##    1    1    1    1    1    1    1    1    1    1    1    1    1    1
1    1
##  498  507  513  525   78   82   85   91
##    1    1    1    1    1    1    1    1
## [1] "Relative frequency table (proportions) sorted"
##
##    NULL     40     223     67     153     45     281     219     94     174
154
## 0.9442 0.0080 0.0054 0.0030 0.0022 0.0022 0.0016 0.0014 0.0014 0.0012
0.0010
##     242     307     43     51     135     169     179     197     233     308
331
## 0.0008 0.0008 0.0008 0.0008 0.0006 0.0006 0.0006 0.0006 0.0006 0.0006
0.0006
##     342     405     86     110     113     122     143     20     202     207
286
## 0.0006 0.0006 0.0006 0.0004 0.0004 0.0004 0.0004 0.0004 0.0004 0.0004
0.0004
##     343     38     42     47     485     53     62     72      9     109
12
## 0.0004 0.0004 0.0004 0.0004 0.0004 0.0004 0.0004 0.0004 0.0004 0.0002
0.0002
##     130     142     148     16     165     203     216     217     221     238
263
## 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002
0.0002
##     269     272     28     280     282     317     329     337     346     348
351
## 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002
0.0002
```

```
##     355    356    358    364    367     37    379    380    385    388
395
## 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002
0.0002
##     401    407    408    409    412    424    435    439    443    448
450
## 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002
0.0002
##     451    452    455    457    458    477    479    481    498    507
513
## 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002
0.0002
##     525     78     82     85     91
## 0.0002 0.0002 0.0002 0.0002 0.0002
## [1] "variable  26 : days_in_waiting_list"
```

Histogram of days_in_waiting_list
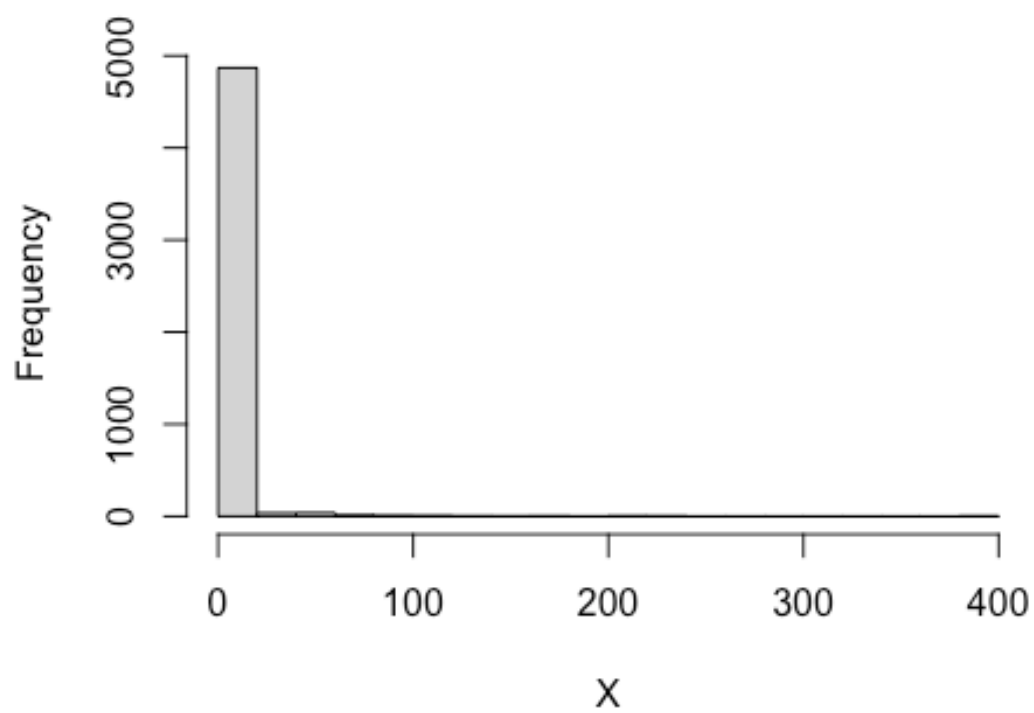
Boxplot of days_in_waiting_list
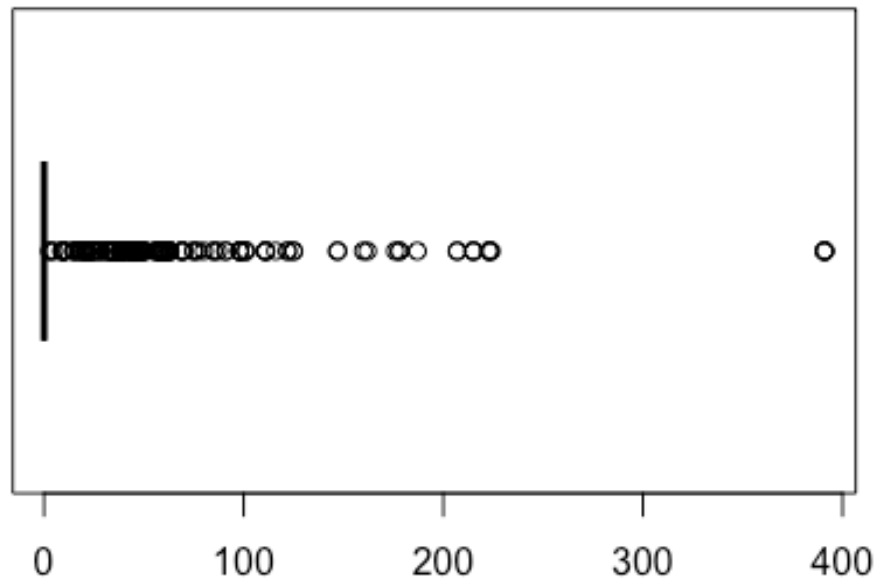

```
## [1] "Extended Summary Statistics"
##    Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##   0.000   0.000   0.000   2.285   0.000 391.000
## [1] "sd:  18.3618433829091"
## [1] "vc:  8.03511438075841"
## [1] "variable  27 : customer_type"
```

Pie of customer_type

Transient

Group

Contract
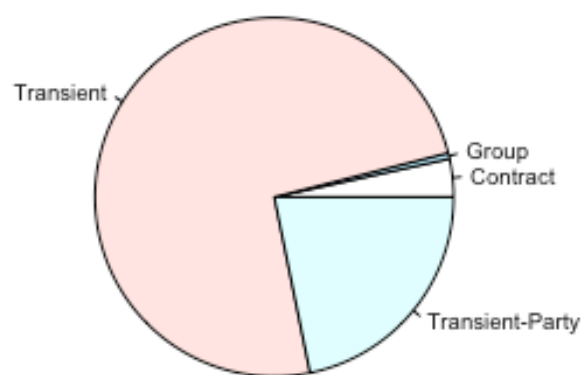
Transient-Party

Barplot of customer_type
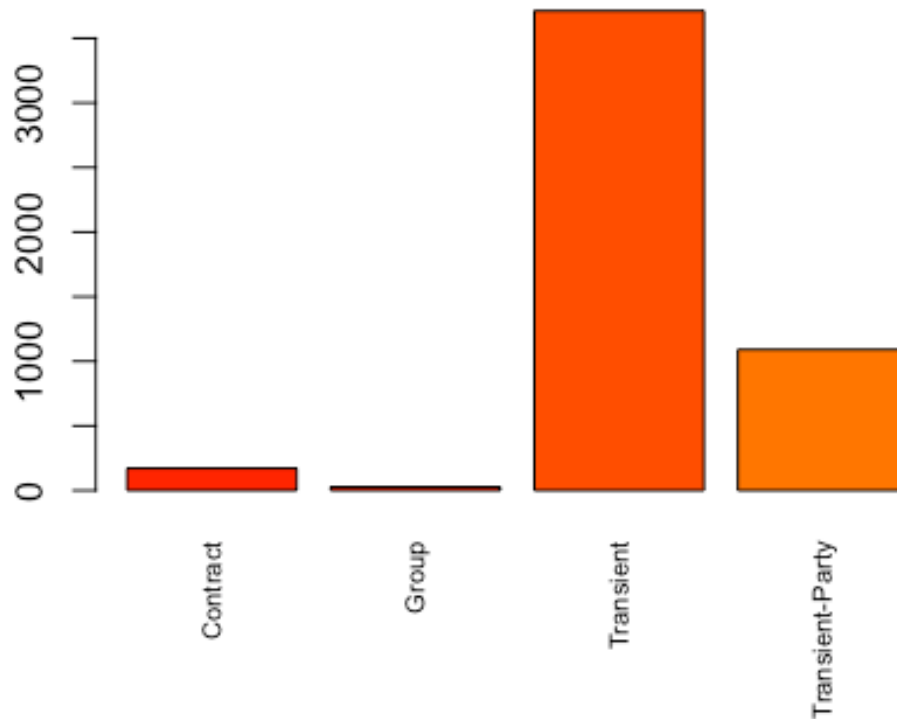

```
## [1] "Number of modalities:  4"
## [1] "Frequency table"
##
##        Contract           Group        Transient Transient-Party
##             171              27             3712            1090
## [1] "Relative frequency table (proportions)"
##
##        Contract           Group        Transient Transient-Party
##          0.0342          0.0054           0.7424          0.2180
## [1] "Frequency table sorted"
##
##       Transient Transient-Party          Contract           Group
##            3712            1090               171              27
## [1] "Relative frequency table (proportions) sorted"
##
##       Transient Transient-Party          Contract           Group
##          0.7424          0.2180            0.0342          0.0054
## [1] "variable  28 : adr"
```

Histogram of adr
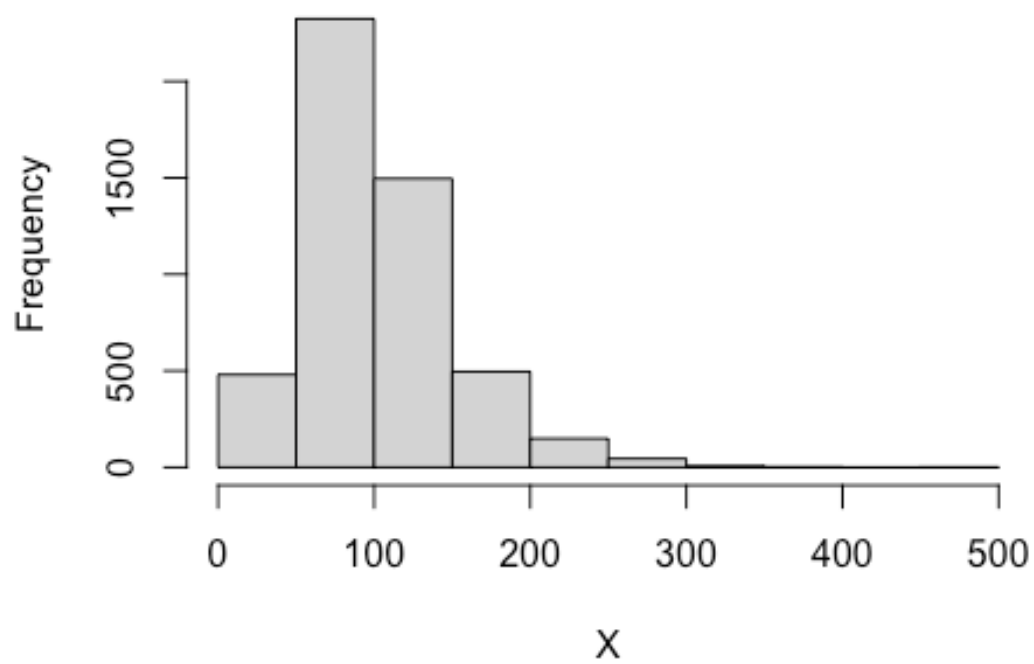
Boxplot of adr
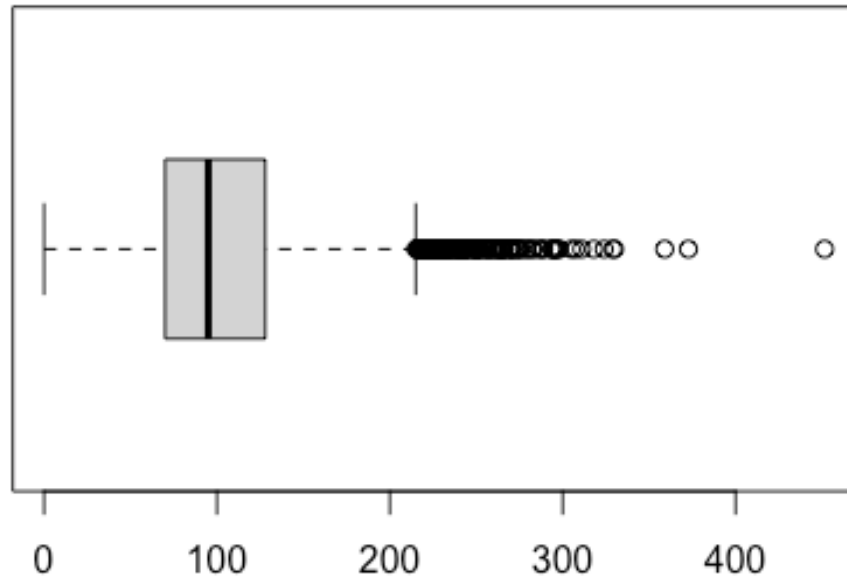

```
## [1] "Extended Summary Statistics"
##    Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##     0.0    70.0    95.0   102.7   128.0   451.5
## [1] "sd:  48.0999813579638"
## [1] "vc:  0.468546740818426"
## [1] "variable  29 : required_car_parking_spaces"
```

Histogram of required_car_parking_spaces
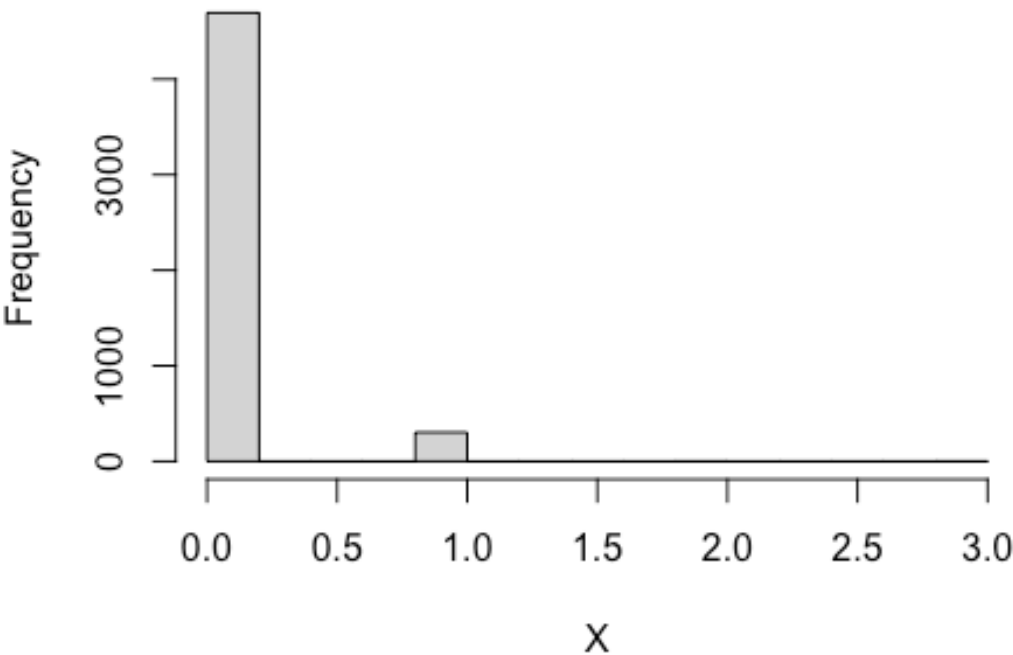
Boxplot of required_car_parking_spaces
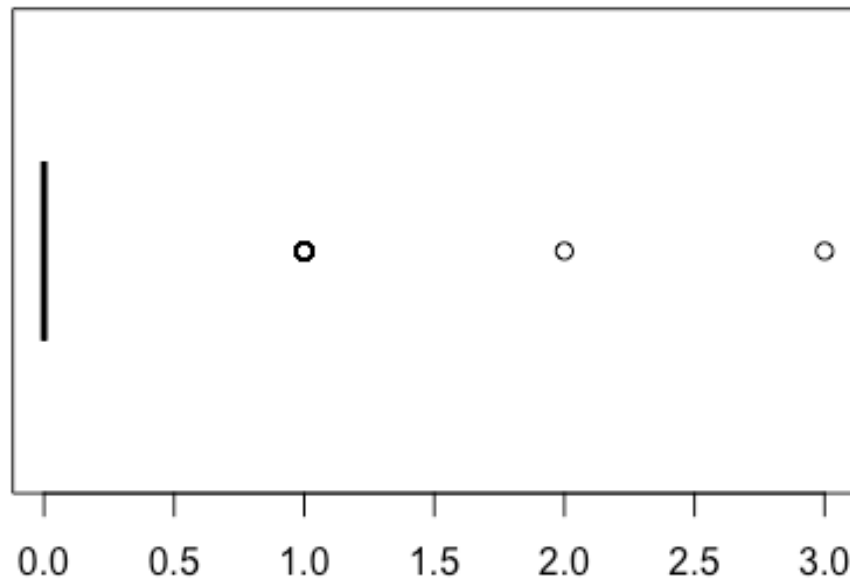

```
## [1] "Extended Summary Statistics"
##    Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##  0.0000  0.0000  0.0000  0.0616  0.0000  3.0000
## [1] "sd:  0.243756689066563"
## [1] "vc:  3.95708910822342"
## [1] "variable  30 : total_of_special_requests"
```

Histogram of total_of_special_requests
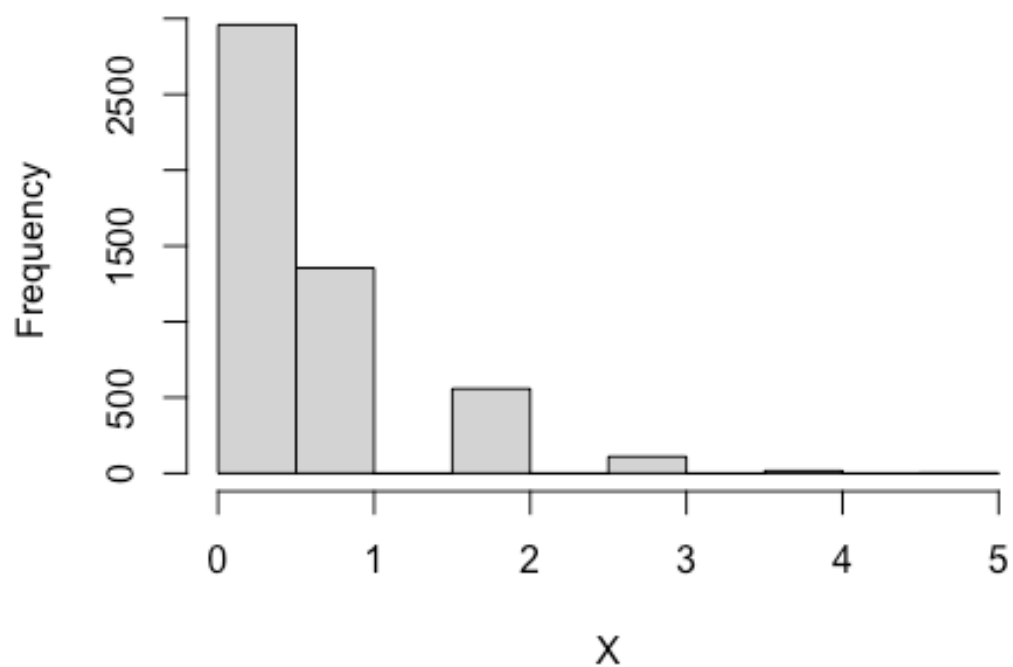
Boxplot of total_of_special_requests
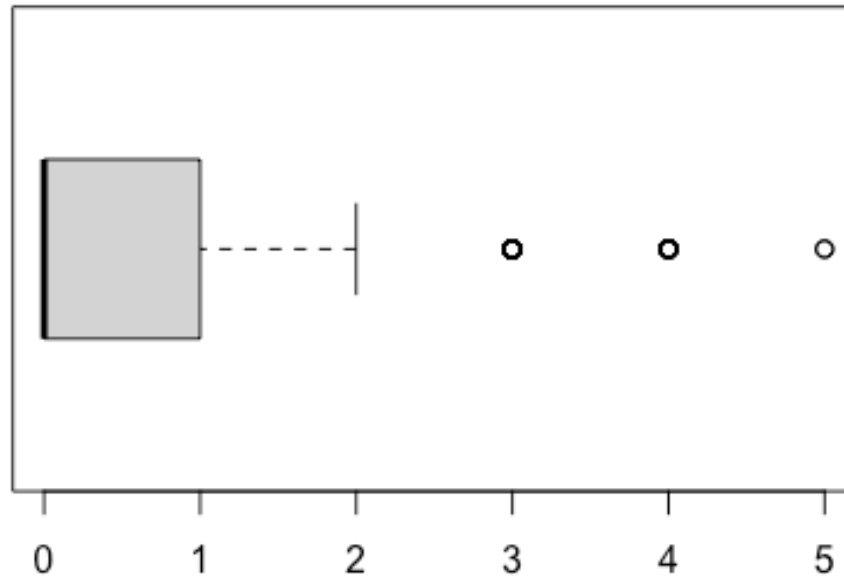

```
## [1] "Extended Summary Statistics"
##    Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##   0.000   0.000   0.000   0.575   1.000   5.000
## [1] "sd:  0.803806084104972"
## [1] "vc:  1.39792362453039"
## [1] "variable  31 : reservation_status"
```

Pie of reservation_status
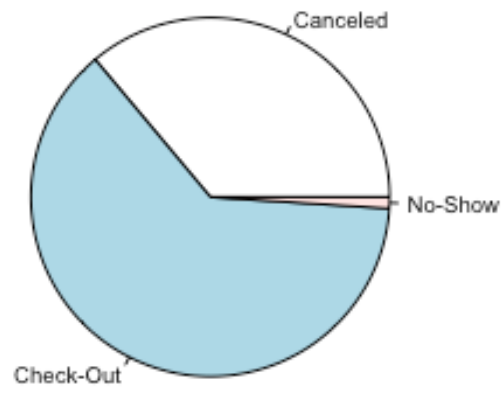
Barplot of reservation_status
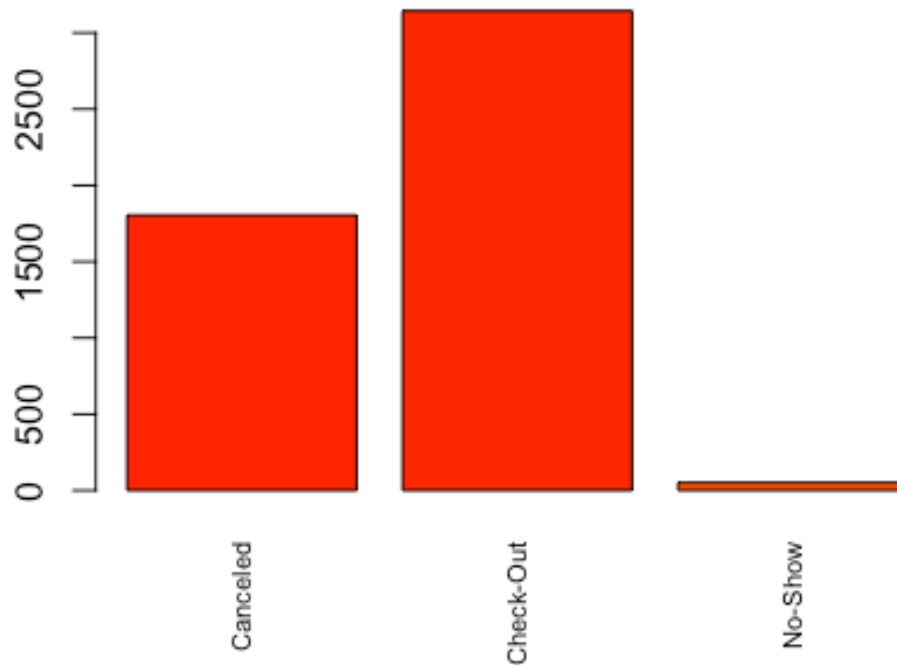

```
## [1] "Number of modalities:  3"
## [1] "Frequency table"
##
##  Canceled Check-Out   No-Show
##      1805      3144        51
## [1] "Relative frequency table (proportions)"
##
##  Canceled Check-Out   No-Show
##    0.3610    0.6288    0.0102
## [1] "Frequency table sorted"
##
## Check-Out  Canceled   No-Show
##      3144      1805        51
## [1] "Relative frequency table (proportions) sorted"
##
## Check-Out  Canceled   No-Show
##    0.6288    0.3610    0.0102
## [1] "variable  32 : reservation_status_date"
```

Pie of reservation_status_date
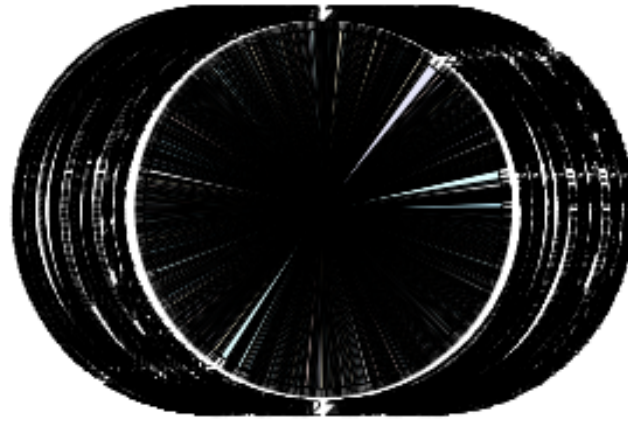
Barplot of reservation_status_date
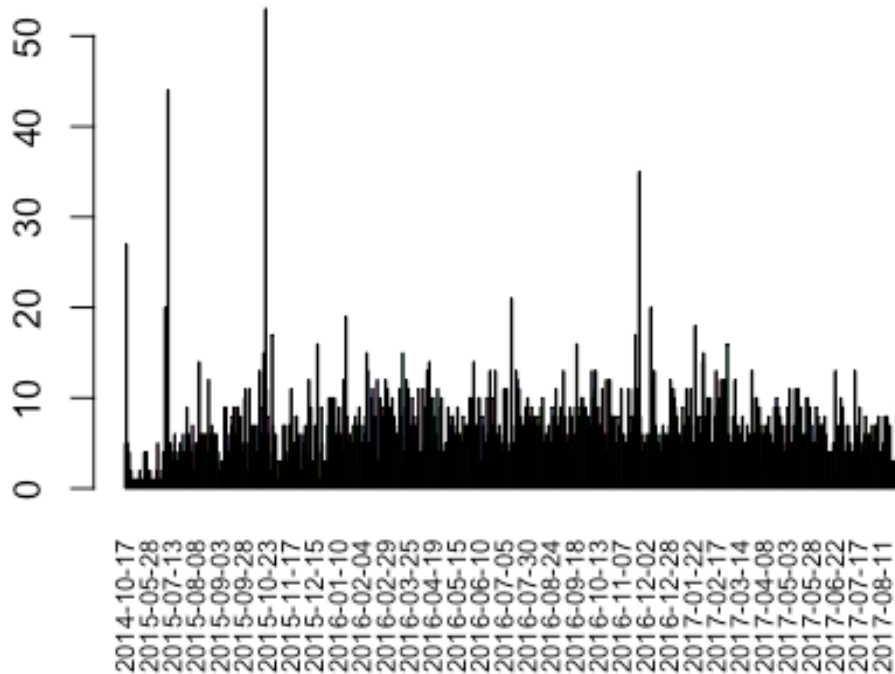

```
## [1] "Number of modalities:  825"
## [1] "Frequency table"
##
## 2014-10-17 2015-01-01 2015-01-21 2015-01-22 2015-01-30 2015-02-19
2015-03-03
##          5         27          5          1          4          1
2
## 2015-03-25 2015-04-03 2015-04-05 2015-04-06 2015-04-11 2015-04-13
2015-04-14
##          1          1          1          1          1          1
1
## 2015-04-15 2015-04-28 2015-04-29 2015-05-06 2015-05-09 2015-05-13
2015-05-14
##          1          2          1          1          1          1
4
## 2015-05-18 2015-05-19 2015-05-20 2015-05-27 2015-05-28 2015-05-29
2015-06-01
##          2          4          2          1          1          2
1
## 2015-06-08 2015-06-09 2015-06-12 2015-06-13 2015-06-15 2015-06-16
2015-06-17
##          1          1          1          1          1          2
5
```

```
## 2015-06-19 2015-06-23 2015-06-25 2015-06-26 2015-06-27 2015-06-29
2015-06-30
##            1            1            1            1            2            4
2
## 2015-07-02 2015-07-03 2015-07-04 2015-07-06 2015-07-08 2015-07-09
2015-07-10
##           20           12            1           44            4            2
5
## 2015-07-12 2015-07-13 2015-07-14 2015-07-15 2015-07-16 2015-07-17
2015-07-18
##            2            3            4            6            2            3
3
## 2015-07-19 2015-07-20 2015-07-22 2015-07-23 2015-07-24 2015-07-25
2015-07-26
##            4            3            5            4            2            6
4
## 2015-07-27 2015-07-28 2015-07-29 2015-07-30 2015-07-31 2015-08-01
2015-08-02
##            1            2            9            3            6            5
2
## 2015-08-03 2015-08-04 2015-08-05 2015-08-06 2015-08-07 2015-08-08
2015-08-09
##            4            7            2            1            5            4
4
## 2015-08-10 2015-08-11 2015-08-12 2015-08-13 2015-08-14 2015-08-15
2015-08-16
##            5           14            6            4            6            4
6
## 2015-08-17 2015-08-18 2015-08-19 2015-08-20 2015-08-21 2015-08-22
2015-08-23
##            6            4            4            3           12            6
3
## 2015-08-24 2015-08-25 2015-08-26 2015-08-27 2015-08-28 2015-08-29
2015-08-30
##            7            6            2            6            2            6
3
## 2015-08-31 2015-09-01 2015-09-03 2015-09-04 2015-09-05 2015-09-06
2015-09-07
##            4            2            2            3            2            3
3
## 2015-09-08 2015-09-09 2015-09-10 2015-09-11 2015-09-12 2015-09-13
2015-09-14
##            9            9            5            6            4            4
2
## 2015-09-15 2015-09-16 2015-09-17 2015-09-18 2015-09-19 2015-09-20
2015-09-21
##            7            8            3            9            3            6
9
## 2015-09-22 2015-09-23 2015-09-24 2015-09-25 2015-09-26 2015-09-27
2015-09-28
```

```
##            9           6           6           8           2           4
5
## 2015-09-29 2015-09-30 2015-10-01 2015-10-02 2015-10-03 2015-10-04
2015-10-05
##           10          11           1           2           5          11
7
## 2015-10-06 2015-10-07 2015-10-08 2015-10-09 2015-10-10 2015-10-11
2015-10-12
##            7           3           6           6           7           4
4
## 2015-10-13 2015-10-14 2015-10-15 2015-10-16 2015-10-17 2015-10-18
2015-10-19
##            7           4          13           6           1           9
15
## 2015-10-20 2015-10-21 2015-10-22 2015-10-23 2015-10-24 2015-10-25
2015-10-26
##            8          53          11           8           6           4
2
## 2015-10-27 2015-10-28 2015-10-29 2015-10-30 2015-10-31 2015-11-01
2015-11-02
##            2          17           7           3           4           6
1
## 2015-11-03 2015-11-04 2015-11-05 2015-11-06 2015-11-07 2015-11-08
2015-11-09
##            1           3           1           3           3           3
7
## 2015-11-10 2015-11-11 2015-11-12 2015-11-13 2015-11-14 2015-11-15
2015-11-16
##            2           7           3           2           4           7
7
## 2015-11-17 2015-11-18 2015-11-19 2015-11-20 2015-11-21 2015-11-22
2015-11-23
##           11           3           1           5           3           8
8
## 2015-11-24 2015-11-25 2015-11-26 2015-11-27 2015-11-28 2015-11-29
2015-11-30
##            2           1           6           2           1           6
4
## 2015-12-02 2015-12-03 2015-12-04 2015-12-05 2015-12-07 2015-12-08
2015-12-09
##            5           7           4           2           2          12
3
## 2015-12-10 2015-12-11 2015-12-13 2015-12-14 2015-12-15 2015-12-16
2015-12-17
##            9           3           1           3           7           1
4
## 2015-12-18 2015-12-19 2015-12-20 2015-12-21 2015-12-22 2015-12-23
2015-12-24
##           16           4           1           1           9           5
1
```

```
## 2015-12-25 2015-12-26 2015-12-27 2015-12-28 2015-12-29 2015-12-30
2016-01-01
##          2          3          3          3          7         10
6
## 2016-01-02 2016-01-03 2016-01-04 2016-01-05 2016-01-06 2016-01-07
2016-01-08
##          6         10          1          8         10          3
6
## 2016-01-09 2016-01-10 2016-01-11 2016-01-12 2016-01-13 2016-01-14
2016-01-15
##          3          7          9          1          6          2
4
## 2016-01-16 2016-01-17 2016-01-18 2016-01-19 2016-01-20 2016-01-21
2016-01-22
##         12          4         19          8          5          5
6
## 2016-01-23 2016-01-24 2016-01-25 2016-01-26 2016-01-27 2016-01-28
2016-01-29
##          1          5          5          7          3          8
7
## 2016-01-30 2016-01-31 2016-02-01 2016-02-02 2016-02-03 2016-02-04
2016-02-05
##          2          2          9          4          4          5
7
## 2016-02-06 2016-02-07 2016-02-08 2016-02-09 2016-02-10 2016-02-11
2016-02-12
##          5          6          8         15         13          5
4
## 2016-02-13 2016-02-14 2016-02-15 2016-02-16 2016-02-17 2016-02-18
2016-02-19
##          5         10         11          8          5          8
3
## 2016-02-20 2016-02-21 2016-02-22 2016-02-23 2016-02-24 2016-02-25
2016-02-26
##         12          3          3         10          3          9
8
## 2016-02-27 2016-02-28 2016-02-29 2016-03-01 2016-03-02 2016-03-03
2016-03-04
##          3          8         12          8         11          7
9
## 2016-03-05 2016-03-06 2016-03-07 2016-03-08 2016-03-09 2016-03-10
2016-03-11
##          5          8         10          5          8          5
5
## 2016-03-12 2016-03-13 2016-03-14 2016-03-15 2016-03-16 2016-03-17
2016-03-18
##          6          6          7         11          8          6
15
## 2016-03-19 2016-03-20 2016-03-21 2016-03-22 2016-03-23 2016-03-24
2016-03-25
```

```
##          3          4          9         12          9         11
2
## 2016-03-26 2016-03-27 2016-03-28 2016-03-29 2016-03-30 2016-03-31
2016-04-01
##          4          7         10          4          8          7
4
## 2016-04-02 2016-04-03 2016-04-04 2016-04-05 2016-04-06 2016-04-07
2016-04-08
##          2          8         11          4          2          3
4
## 2016-04-09 2016-04-10 2016-04-11 2016-04-12 2016-04-13 2016-04-14
2016-04-15
##         11          5          9          7         13          4
14
## 2016-04-16 2016-04-17 2016-04-18 2016-04-19 2016-04-20 2016-04-21
2016-04-22
##          3         10          4         10          5          8
4
## 2016-04-23 2016-04-24 2016-04-25 2016-04-26 2016-04-27 2016-04-28
2016-04-29
##          6         11          4          2          9         10
4
## 2016-04-30 2016-05-02 2016-05-03 2016-05-04 2016-05-05 2016-05-06
2016-05-07
##          4          4          5          5          5          9
3
## 2016-05-08 2016-05-09 2016-05-10 2016-05-11 2016-05-12 2016-05-13
2016-05-14
##          4          7          8          8          7          4
6
## 2016-05-15 2016-05-16 2016-05-17 2016-05-18 2016-05-19 2016-05-20
2016-05-21
##          5          9          6          5          6          5
5
## 2016-05-22 2016-05-23 2016-05-24 2016-05-25 2016-05-26 2016-05-27
2016-05-28
##          8          5          7          7          7          5
2
## 2016-05-29 2016-05-30 2016-05-31 2016-06-01 2016-06-02 2016-06-03
2016-06-04
##         10         10          7          2         14          6
7
## 2016-06-05 2016-06-06 2016-06-08 2016-06-09 2016-06-10 2016-06-11
2016-06-12
##          7          6         10         10          3          1
8
## 2016-06-13 2016-06-14 2016-06-15 2016-06-16 2016-06-17 2016-06-18
2016-06-19
##          7          5          5          5         10          6
4
```

```
## 2016-06-20 2016-06-21 2016-06-22 2016-06-23 2016-06-24 2016-06-25
2016-06-26
##         13          5         10          7          6          1
13
## 2016-06-27 2016-06-28 2016-06-29 2016-06-30 2016-07-01 2016-07-02
2016-07-03
##          4          6          4          7          6          5
4
## 2016-07-04 2016-07-05 2016-07-06 2016-07-07 2016-07-08 2016-07-09
2016-07-10
##          1         11          5          6         11          5
4
## 2016-07-11 2016-07-12 2016-07-13 2016-07-14 2016-07-15 2016-07-16
2016-07-17
##          3          4         21          5          4          5
7
## 2016-07-18 2016-07-19 2016-07-20 2016-07-21 2016-07-22 2016-07-23
2016-07-24
##         13         12          3         11          5          8
6
## 2016-07-25 2016-07-26 2016-07-27 2016-07-28 2016-07-29 2016-07-30
2016-07-31
##          7          3          3          9          7         10
2
## 2016-08-01 2016-08-02 2016-08-03 2016-08-04 2016-08-05 2016-08-06
2016-08-07
##          6          8          9          7          5          8
1
## 2016-08-08 2016-08-09 2016-08-10 2016-08-11 2016-08-12 2016-08-13
2016-08-14
##          7          4          8          7          6          9
7
## 2016-08-15 2016-08-16 2016-08-17 2016-08-18 2016-08-19 2016-08-20
2016-08-21
##         10          5          1          6          5          6
7
## 2016-08-22 2016-08-23 2016-08-24 2016-08-25 2016-08-26 2016-08-27
2016-08-28
##          4          3          5          9          8          8
6
## 2016-08-29 2016-08-30 2016-08-31 2016-09-01 2016-09-02 2016-09-03
2016-09-04
##         11          4          6          7          8          9
4
## 2016-09-05 2016-09-06 2016-09-07 2016-09-08 2016-09-09 2016-09-10
2016-09-11
##          6         13          2          8          6          5
4
## 2016-09-12 2016-09-13 2016-09-14 2016-09-15 2016-09-16 2016-09-17
2016-09-18
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##          4           9           4           8           5           4
6
## 2016-09-19 2016-09-20 2016-09-21 2016-09-22 2016-09-23 2016-09-24
2016-09-25
##          9          16           9           7           8           3
10
## 2016-09-26 2016-09-27 2016-09-28 2016-09-29 2016-09-30 2016-10-01
2016-10-02
##         10           7           9           9           5           8
6
## 2016-10-03 2016-10-04 2016-10-05 2016-10-06 2016-10-07 2016-10-08
2016-10-09
##          8           7           4          13          10           6
11
## 2016-10-10 2016-10-11 2016-10-12 2016-10-13 2016-10-14 2016-10-15
2016-10-16
##         13           6           6           9           7           7
7
## 2016-10-17 2016-10-18 2016-10-19 2016-10-20 2016-10-21 2016-10-22
2016-10-23
##         11           6           3           6          12           4
3
## 2016-10-24 2016-10-25 2016-10-26 2016-10-27 2016-10-28 2016-10-29
2016-10-30
##          6          12           8           8           8           8
4
## 2016-10-31 2016-11-01 2016-11-02 2016-11-03 2016-11-04 2016-11-05
2016-11-06
##          4           5           8           3           7           6
11
## 2016-11-07 2016-11-08 2016-11-09 2016-11-10 2016-11-11 2016-11-12
2016-11-13
##          6           1           6           4           5           3
5
## 2016-11-14 2016-11-15 2016-11-16 2016-11-17 2016-11-18 2016-11-19
2016-11-20
##         11           3           6           8           8           3
11
## 2016-11-21 2016-11-22 2016-11-23 2016-11-24 2016-11-25 2016-11-26
2016-11-27
##         17           7           7          11          35           8
6
## 2016-11-28 2016-11-29 2016-11-30 2016-12-01 2016-12-02 2016-12-03
2016-12-04
##          4           4           1           5           6           4
5
## 2016-12-05 2016-12-06 2016-12-07 2016-12-08 2016-12-09 2016-12-11
2016-12-12
##          3           6          20           4          11          12
13
```

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## 2016-12-13 2016-12-14 2016-12-15 2016-12-16 2016-12-17 2016-12-18
2016-12-19
##          7          6          6          5          5          3
4
## 2016-12-20 2016-12-21 2016-12-22 2016-12-23 2016-12-24 2016-12-25
2016-12-26
##          6          7          6          6          2          2
2
## 2016-12-27 2016-12-28 2016-12-29 2016-12-30 2016-12-31 2017-01-01
2017-01-02
##          6          7         12          5          4         11
10
## 2017-01-03 2017-01-04 2017-01-05 2017-01-06 2017-01-07 2017-01-08
2017-01-09
##          9          6          8          5          4          6
5
## 2017-01-10 2017-01-11 2017-01-12 2017-01-13 2017-01-14 2017-01-15
2017-01-16
##          4          9          7          2          5         11
8
## 2017-01-17 2017-01-18 2017-01-19 2017-01-20 2017-01-21 2017-01-22
2017-01-23
##          8          5         11          7          4          5
5
## 2017-01-24 2017-01-25 2017-01-26 2017-01-27 2017-01-28 2017-01-29
2017-01-30
##         18          5          4          8          3          6
6
## 2017-01-31 2017-02-01 2017-02-02 2017-02-03 2017-02-04 2017-02-05
2017-02-06
##          8         14         15          8          7          6
10
## 2017-02-08 2017-02-09 2017-02-10 2017-02-11 2017-02-12 2017-02-13
2017-02-14
##          7          9         10          3          5          5
4
## 2017-02-15 2017-02-16 2017-02-17 2017-02-18 2017-02-19 2017-02-20
2017-02-21
##          8         13          5          9         10          8
12
## 2017-02-22 2017-02-23 2017-02-24 2017-02-25 2017-02-26 2017-02-27
2017-02-28
##          6          9         10         12         12          8
16
## 2017-03-01 2017-03-02 2017-03-03 2017-03-04 2017-03-05 2017-03-06
2017-03-07
##          5          6          2          5          5          8
4
## 2017-03-08 2017-03-09 2017-03-10 2017-03-11 2017-03-12 2017-03-13
2017-03-14
```

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##             12             5             3             6             7             4
6
## 2017-03-15 2017-03-16 2017-03-17 2017-03-18 2017-03-19 2017-03-20
2017-03-21
##              5             8             1             4             5             3
7
## 2017-03-22 2017-03-23 2017-03-24 2017-03-25 2017-03-26 2017-03-27
2017-03-28
##              3             6             4             3            13             6
6
## 2017-03-29 2017-03-30 2017-03-31 2017-04-01 2017-04-02 2017-04-03
2017-04-04
##              6            10            10             3             5             9
5
## 2017-04-05 2017-04-06 2017-04-07 2017-04-08 2017-04-09 2017-04-10
2017-04-11
##              6             7             3             6             4             7
2
## 2017-04-12 2017-04-13 2017-04-14 2017-04-15 2017-04-16 2017-04-17
2017-04-18
##              4             8             5             6             4             4
5
## 2017-04-19 2017-04-20 2017-04-21 2017-04-22 2017-04-23 2017-04-24
2017-04-25
##              9             4            10             6             9             8
8
## 2017-04-26 2017-04-27 2017-04-28 2017-04-29 2017-04-30 2017-05-01
2017-05-02
##              6             7             5             4             3             7
3
## 2017-05-03 2017-05-04 2017-05-05 2017-05-06 2017-05-07 2017-05-08
2017-05-09
##              9             5            11             5             2             5
7
## 2017-05-10 2017-05-11 2017-05-12 2017-05-13 2017-05-14 2017-05-15
2017-05-16
##              4            11             6             8            11             7
8
## 2017-05-17 2017-05-18 2017-05-19 2017-05-20 2017-05-21 2017-05-22
2017-05-23
##              9             4             4             6             5             6
10
## 2017-05-24 2017-05-25 2017-05-26 2017-05-27 2017-05-28 2017-05-29
2017-05-30
##             10             3             9             3             7             5
5
## 2017-05-31 2017-06-01 2017-06-02 2017-06-03 2017-06-04 2017-06-05
2017-06-06
##              5             5             9             6             8             2
7
```

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## 2017-06-07 2017-06-08 2017-06-09 2017-06-10 2017-06-11 2017-06-12
2017-06-13
##            7          7          7          4          8          6
4
## 2017-06-14 2017-06-15 2017-06-16 2017-06-17 2017-06-18 2017-06-19
2017-06-20
##            4          4          2          4          4          4
5
## 2017-06-21 2017-06-22 2017-06-23 2017-06-24 2017-06-25 2017-06-26
2017-06-27
##            2         13          5          4          2          7
4
## 2017-06-28 2017-06-29 2017-06-30 2017-07-01 2017-07-02 2017-07-03
2017-07-04
##           10          8          9          7          3          4
4
## 2017-07-05 2017-07-06 2017-07-07 2017-07-08 2017-07-09 2017-07-10
2017-07-11
##            5          7          5          2          3          4
4
## 2017-07-12 2017-07-13 2017-07-14 2017-07-15 2017-07-16 2017-07-17
2017-07-18
##            5         13          7          6          4          6
9
## 2017-07-19 2017-07-20 2017-07-21 2017-07-22 2017-07-23 2017-07-24
2017-07-25
##            5          4          3          3          6          8
4
## 2017-07-26 2017-07-27 2017-07-28 2017-07-29 2017-07-30 2017-07-31
2017-08-01
##            3          6          4          6          2          7
5
## 2017-08-02 2017-08-03 2017-08-04 2017-08-05 2017-08-06 2017-08-07
2017-08-08
##            2          7          7          4          6          8
3
## 2017-08-09 2017-08-10 2017-08-11 2017-08-12 2017-08-13 2017-08-14
2017-08-15
##            4          3          4          5          8          2
7
## 2017-08-16 2017-08-17 2017-08-18 2017-08-19 2017-08-20 2017-08-21
2017-08-22
##            8          5          3          7          3          3
3
## 2017-08-23 2017-08-24 2017-08-25 2017-08-26 2017-08-27 2017-08-28
2017-08-29
##            3          3          3          1          8          9
5
## 2017-08-30 2017-08-31 2017-09-01 2017-09-02 2017-09-03 2017-09-07
##            6          2          2          1          4          2
```

```
## [1] "Relative frequency table (proportions)"
##
## 2014-10-17 2015-01-01 2015-01-21 2015-01-22 2015-01-30 2015-02-19
2015-03-03
##     0.0010     0.0054     0.0010     0.0002     0.0008     0.0002
0.0004
## 2015-03-25 2015-04-03 2015-04-05 2015-04-06 2015-04-11 2015-04-13
2015-04-14
##     0.0002     0.0002     0.0002     0.0002     0.0002     0.0002
0.0002
## 2015-04-15 2015-04-28 2015-04-29 2015-05-06 2015-05-09 2015-05-13
2015-05-14
##     0.0002     0.0004     0.0002     0.0002     0.0002     0.0002
0.0008
## 2015-05-18 2015-05-19 2015-05-20 2015-05-27 2015-05-28 2015-05-29
2015-06-01
##     0.0004     0.0008     0.0004     0.0002     0.0002     0.0004
0.0002
## 2015-06-08 2015-06-09 2015-06-12 2015-06-13 2015-06-15 2015-06-16
2015-06-17
##     0.0002     0.0002     0.0002     0.0002     0.0002     0.0004
0.0010
## 2015-06-19 2015-06-23 2015-06-25 2015-06-26 2015-06-27 2015-06-29
2015-06-30
##     0.0002     0.0002     0.0002     0.0002     0.0004     0.0008
0.0004
## 2015-07-02 2015-07-03 2015-07-04 2015-07-06 2015-07-08 2015-07-09
2015-07-10
##     0.0040     0.0024     0.0002     0.0088     0.0008     0.0004
0.0010
## 2015-07-12 2015-07-13 2015-07-14 2015-07-15 2015-07-16 2015-07-17
2015-07-18
##     0.0004     0.0006     0.0008     0.0012     0.0004     0.0006
0.0006
## 2015-07-19 2015-07-20 2015-07-22 2015-07-23 2015-07-24 2015-07-25
2015-07-26
##     0.0008     0.0006     0.0010     0.0008     0.0004     0.0012
0.0008
## 2015-07-27 2015-07-28 2015-07-29 2015-07-30 2015-07-31 2015-08-01
2015-08-02
##     0.0002     0.0004     0.0018     0.0006     0.0012     0.0010
0.0004
## 2015-08-03 2015-08-04 2015-08-05 2015-08-06 2015-08-07 2015-08-08
2015-08-09
##     0.0008     0.0014     0.0004     0.0002     0.0010     0.0008
0.0008
## 2015-08-10 2015-08-11 2015-08-12 2015-08-13 2015-08-14 2015-08-15
2015-08-16
##     0.0010     0.0028     0.0012     0.0008     0.0012     0.0008
0.0012
```

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## 2015-08-17 2015-08-18 2015-08-19 2015-08-20 2015-08-21 2015-08-22
2015-08-23
##      0.0012      0.0008      0.0008      0.0006      0.0024      0.0012
0.0006
## 2015-08-24 2015-08-25 2015-08-26 2015-08-27 2015-08-28 2015-08-29
2015-08-30
##      0.0014      0.0012      0.0004      0.0012      0.0004      0.0012
0.0006
## 2015-08-31 2015-09-01 2015-09-03 2015-09-04 2015-09-05 2015-09-06
2015-09-07
##      0.0008      0.0004      0.0004      0.0006      0.0004      0.0006
0.0006
## 2015-09-08 2015-09-09 2015-09-10 2015-09-11 2015-09-12 2015-09-13
2015-09-14
##      0.0018      0.0018      0.0010      0.0012      0.0008      0.0008
0.0004
## 2015-09-15 2015-09-16 2015-09-17 2015-09-18 2015-09-19 2015-09-20
2015-09-21
##      0.0014      0.0016      0.0006      0.0018      0.0006      0.0012
0.0018
## 2015-09-22 2015-09-23 2015-09-24 2015-09-25 2015-09-26 2015-09-27
2015-09-28
##      0.0018      0.0012      0.0012      0.0016      0.0004      0.0008
0.0010
## 2015-09-29 2015-09-30 2015-10-01 2015-10-02 2015-10-03 2015-10-04
2015-10-05
##      0.0020      0.0022      0.0002      0.0004      0.0010      0.0022
0.0014
## 2015-10-06 2015-10-07 2015-10-08 2015-10-09 2015-10-10 2015-10-11
2015-10-12
##      0.0014      0.0006      0.0012      0.0012      0.0014      0.0008
0.0008
## 2015-10-13 2015-10-14 2015-10-15 2015-10-16 2015-10-17 2015-10-18
2015-10-19
##      0.0014      0.0008      0.0026      0.0012      0.0002      0.0018
0.0030
## 2015-10-20 2015-10-21 2015-10-22 2015-10-23 2015-10-24 2015-10-25
2015-10-26
##      0.0016      0.0106      0.0022      0.0016      0.0012      0.0008
0.0004
## 2015-10-27 2015-10-28 2015-10-29 2015-10-30 2015-10-31 2015-11-01
2015-11-02
##      0.0004      0.0034      0.0014      0.0006      0.0008      0.0012
0.0002
## 2015-11-03 2015-11-04 2015-11-05 2015-11-06 2015-11-07 2015-11-08
2015-11-09
##      0.0002      0.0006      0.0002      0.0006      0.0006      0.0006
0.0014
## 2015-11-10 2015-11-11 2015-11-12 2015-11-13 2015-11-14 2015-11-15
2015-11-16
```

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##     0.0004     0.0014     0.0006     0.0004     0.0008     0.0014
0.0014
## 2015-11-17 2015-11-18 2015-11-19 2015-11-20 2015-11-21 2015-11-22
2015-11-23
##     0.0022     0.0006     0.0002     0.0010     0.0006     0.0016
0.0016
## 2015-11-24 2015-11-25 2015-11-26 2015-11-27 2015-11-28 2015-11-29
2015-11-30
##     0.0004     0.0002     0.0012     0.0004     0.0002     0.0012
0.0008
## 2015-12-02 2015-12-03 2015-12-04 2015-12-05 2015-12-07 2015-12-08
2015-12-09
##     0.0010     0.0014     0.0008     0.0004     0.0004     0.0024
0.0006
## 2015-12-10 2015-12-11 2015-12-13 2015-12-14 2015-12-15 2015-12-16
2015-12-17
##     0.0018     0.0006     0.0002     0.0006     0.0014     0.0002
0.0008
## 2015-12-18 2015-12-19 2015-12-20 2015-12-21 2015-12-22 2015-12-23
2015-12-24
##     0.0032     0.0008     0.0002     0.0002     0.0018     0.0010
0.0002
## 2015-12-25 2015-12-26 2015-12-27 2015-12-28 2015-12-29 2015-12-30
2016-01-01
##     0.0004     0.0006     0.0006     0.0006     0.0014     0.0020
0.0012
## 2016-01-02 2016-01-03 2016-01-04 2016-01-05 2016-01-06 2016-01-07
2016-01-08
##     0.0012     0.0020     0.0002     0.0016     0.0020     0.0006
0.0012
## 2016-01-09 2016-01-10 2016-01-11 2016-01-12 2016-01-13 2016-01-14
2016-01-15
##     0.0006     0.0014     0.0018     0.0002     0.0012     0.0004
0.0008
## 2016-01-16 2016-01-17 2016-01-18 2016-01-19 2016-01-20 2016-01-21
2016-01-22
##     0.0024     0.0008     0.0038     0.0016     0.0010     0.0010
0.0012
## 2016-01-23 2016-01-24 2016-01-25 2016-01-26 2016-01-27 2016-01-28
2016-01-29
##     0.0002     0.0010     0.0010     0.0014     0.0006     0.0016
0.0014
## 2016-01-30 2016-01-31 2016-02-01 2016-02-02 2016-02-03 2016-02-04
2016-02-05
##     0.0004     0.0004     0.0018     0.0008     0.0008     0.0010
0.0014
## 2016-02-06 2016-02-07 2016-02-08 2016-02-09 2016-02-10 2016-02-11
2016-02-12
##     0.0010     0.0012     0.0016     0.0030     0.0026     0.0010
0.0008
```

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## 2016-02-13 2016-02-14 2016-02-15 2016-02-16 2016-02-17 2016-02-18
2016-02-19
##     0.0010     0.0020     0.0022     0.0016     0.0010     0.0016
0.0006
## 2016-02-20 2016-02-21 2016-02-22 2016-02-23 2016-02-24 2016-02-25
2016-02-26
##     0.0024     0.0006     0.0006     0.0020     0.0006     0.0018
0.0016
## 2016-02-27 2016-02-28 2016-02-29 2016-03-01 2016-03-02 2016-03-03
2016-03-04
##     0.0006     0.0016     0.0024     0.0016     0.0022     0.0014
0.0018
## 2016-03-05 2016-03-06 2016-03-07 2016-03-08 2016-03-09 2016-03-10
2016-03-11
##     0.0010     0.0016     0.0020     0.0010     0.0016     0.0010
0.0010
## 2016-03-12 2016-03-13 2016-03-14 2016-03-15 2016-03-16 2016-03-17
2016-03-18
##     0.0012     0.0012     0.0014     0.0022     0.0016     0.0012
0.0030
## 2016-03-19 2016-03-20 2016-03-21 2016-03-22 2016-03-23 2016-03-24
2016-03-25
##     0.0006     0.0008     0.0018     0.0024     0.0018     0.0022
0.0004
## 2016-03-26 2016-03-27 2016-03-28 2016-03-29 2016-03-30 2016-03-31
2016-04-01
##     0.0008     0.0014     0.0020     0.0008     0.0016     0.0014
0.0008
## 2016-04-02 2016-04-03 2016-04-04 2016-04-05 2016-04-06 2016-04-07
2016-04-08
##     0.0004     0.0016     0.0022     0.0008     0.0004     0.0006
0.0008
## 2016-04-09 2016-04-10 2016-04-11 2016-04-12 2016-04-13 2016-04-14
2016-04-15
##     0.0022     0.0010     0.0018     0.0014     0.0026     0.0008
0.0028
## 2016-04-16 2016-04-17 2016-04-18 2016-04-19 2016-04-20 2016-04-21
2016-04-22
##     0.0006     0.0020     0.0008     0.0020     0.0010     0.0016
0.0008
## 2016-04-23 2016-04-24 2016-04-25 2016-04-26 2016-04-27 2016-04-28
2016-04-29
##     0.0012     0.0022     0.0008     0.0004     0.0018     0.0020
0.0008
## 2016-04-30 2016-05-02 2016-05-03 2016-05-04 2016-05-05 2016-05-06
2016-05-07
##     0.0008     0.0008     0.0010     0.0010     0.0010     0.0018
0.0006
## 2016-05-08 2016-05-09 2016-05-10 2016-05-11 2016-05-12 2016-05-13
2016-05-14
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##     0.0008     0.0014     0.0016     0.0016     0.0014     0.0008
0.0012
## 2016-05-15 2016-05-16 2016-05-17 2016-05-18 2016-05-19 2016-05-20
2016-05-21
##     0.0010     0.0018     0.0012     0.0010     0.0012     0.0010
0.0010
## 2016-05-22 2016-05-23 2016-05-24 2016-05-25 2016-05-26 2016-05-27
2016-05-28
##     0.0016     0.0010     0.0014     0.0014     0.0014     0.0010
0.0004
## 2016-05-29 2016-05-30 2016-05-31 2016-06-01 2016-06-02 2016-06-03
2016-06-04
##     0.0020     0.0020     0.0014     0.0004     0.0028     0.0012
0.0014
## 2016-06-05 2016-06-06 2016-06-08 2016-06-09 2016-06-10 2016-06-11
2016-06-12
##     0.0014     0.0012     0.0020     0.0020     0.0006     0.0002
0.0016
## 2016-06-13 2016-06-14 2016-06-15 2016-06-16 2016-06-17 2016-06-18
2016-06-19
##     0.0014     0.0010     0.0010     0.0010     0.0020     0.0012
0.0008
## 2016-06-20 2016-06-21 2016-06-22 2016-06-23 2016-06-24 2016-06-25
2016-06-26
##     0.0026     0.0010     0.0020     0.0014     0.0012     0.0002
0.0026
## 2016-06-27 2016-06-28 2016-06-29 2016-06-30 2016-07-01 2016-07-02
2016-07-03
##     0.0008     0.0012     0.0008     0.0014     0.0012     0.0010
0.0008
## 2016-07-04 2016-07-05 2016-07-06 2016-07-07 2016-07-08 2016-07-09
2016-07-10
##     0.0002     0.0022     0.0010     0.0012     0.0022     0.0010
0.0008
## 2016-07-11 2016-07-12 2016-07-13 2016-07-14 2016-07-15 2016-07-16
2016-07-17
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0.0014
## 2016-07-18 2016-07-19 2016-07-20 2016-07-21 2016-07-22 2016-07-23
2016-07-24
##     0.0026     0.0024     0.0006     0.0022     0.0010     0.0016
0.0012
## 2016-07-25 2016-07-26 2016-07-27 2016-07-28 2016-07-29 2016-07-30
2016-07-31
##     0.0014     0.0006     0.0006     0.0018     0.0014     0.0020
0.0004
## 2016-08-01 2016-08-02 2016-08-03 2016-08-04 2016-08-05 2016-08-06
2016-08-07
##     0.0012     0.0016     0.0018     0.0014     0.0010     0.0016
0.0002
```

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## 2016-08-08 2016-08-09 2016-08-10 2016-08-11 2016-08-12 2016-08-13
2016-08-14
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0.0014
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## 2017-02-01 2015-10-15 2016-02-10 2016-04-13 2016-06-20 2016-06-26
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##          14          13          13          13          13          13
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## 2017-02-19 2017-02-24 2017-03-30 2017-03-31 2017-04-21 2017-05-23
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## 2017-06-28 2015-07-29 2015-09-08 2015-09-09 2015-09-18 2015-09-21
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## 2017-05-08 2017-05-21 2017-05-29 2017-05-30 2017-05-31 2017-06-01
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##          5          5          5          5          5          5
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## 2017-06-23 2017-07-05 2017-07-07 2017-07-12 2017-07-19 2017-08-01
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##          5          5          5          5          5          5
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## 2017-08-17 2017-08-29 2015-01-30 2015-05-14 2015-05-19 2015-06-29
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##          5          5          4          4          4          4
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## 2015-07-14 2015-07-19 2015-07-23 2015-07-26 2015-08-03 2015-08-08
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##          4          4          4          4          4          4
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##          4          4          4          4          4          4
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##          4          4          4          4          4          4
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## 2015-11-30 2015-12-04 2015-12-17 2015-12-19 2016-01-15 2016-01-17
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##          4          4          4          4          4          4
4
## 2016-02-03 2016-02-12 2016-03-20 2016-03-26 2016-03-29 2016-04-01
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##          4          4          4          4          4          4
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## 2016-04-08 2016-04-14 2016-04-18 2016-04-22 2016-04-25 2016-04-29
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##          4          4          4          4          4          4
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## 2016-05-02 2016-05-08 2016-05-13 2016-06-19 2016-06-27 2016-06-29
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##          4          4          4          4          4          4
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## 2016-07-10 2016-07-12 2016-07-15 2016-08-09 2016-08-22 2016-08-30
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##          4          4          4          4          4          4
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## 2016-09-11 2016-09-12 2016-09-14 2016-09-17 2016-10-05 2016-10-22
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##          4          4          4          4          4          4
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## 2016-10-31 2016-11-10 2016-11-28 2016-11-29 2016-12-03 2016-12-08
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##          4          4          4          4          4          4
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## 2016-12-31 2017-01-07 2017-01-10 2017-01-21 2017-01-26 2017-02-14
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##          4          4          4          4          4          4
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## 2017-03-13 2017-03-18 2017-03-24 2017-04-09 2017-04-12 2017-04-16
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##          4          4          4          4          4          4
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##          4          4          4          4          4          4
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##          4          4          4          4          4          4
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##          4          4          4          4          4          4
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##          4          4          4          4          4          3
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## 2015-07-18 2015-07-20 2015-07-30 2015-08-20 2015-08-23 2015-08-30
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##          3          3          3          3          3          3
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## 2015-09-06 2015-09-07 2015-09-17 2015-09-19 2015-10-07 2015-10-30
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##          3          3          3          3          3          3
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##          3          3          3          3          3          3
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## 2016-01-27 2016-02-19 2016-02-21 2016-02-22 2016-02-24 2016-02-27
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##           3          3          3          3          3          3
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##           3          3          3          3          3          3
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## 2016-11-15 2016-11-19 2016-12-05 2016-12-18 2017-01-28 2017-02-11
2017-03-10
##           3          3          3          3          3          3
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## 2017-03-20 2017-03-22 2017-03-25 2017-04-01 2017-04-07 2017-04-30
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##           3          3          3          3          3          3
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## 2017-05-25 2017-05-27 2017-07-02 2017-07-09 2017-07-21 2017-07-22
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##           3          3          3          3          3          3
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## 2017-08-08 2017-08-10 2017-08-18 2017-08-20 2017-08-21 2017-08-22
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##           3          3          3          3          3          3
3
## 2017-08-24 2017-08-25 2015-03-03 2015-04-28 2015-05-18 2015-05-20
2015-05-29
##           3          3          2          2          2          2
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## 2015-06-16 2015-06-27 2015-06-30 2015-07-09 2015-07-12 2015-07-16
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##           2          2          2          2          2          2
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## 2015-07-28 2015-08-02 2015-08-05 2015-08-26 2015-08-28 2015-09-01
2015-09-03
##           2          2          2          2          2          2
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## 2015-09-05 2015-09-14 2015-09-26 2015-10-02 2015-10-26 2015-10-27
2015-11-10
##           2          2          2          2          2          2
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## 2015-11-13 2015-11-24 2015-11-27 2015-12-05 2015-12-07 2015-12-25
2016-01-14
##           2          2          2          2          2          2
2
## 2016-01-30 2016-01-31 2016-03-25 2016-04-02 2016-04-06 2016-04-26
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##          2          2          2          2          2          2
2
## 2016-06-01 2016-07-31 2016-09-07 2016-12-24 2016-12-25 2016-12-26
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##          2          2          2          2          2          2
2
## 2017-03-03 2017-04-11 2017-05-07 2017-06-05 2017-06-16 2017-06-21
2017-06-25
##          2          2          2          2          2          2
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## 2017-07-08 2017-07-30 2017-08-02 2017-08-14 2017-08-31 2017-09-01
2017-09-07
##          2          2          2          2          2          2
2
## 2015-01-22 2015-02-19 2015-03-25 2015-04-03 2015-04-05 2015-04-06
2015-04-11
##          1          1          1          1          1          1
1
## 2015-04-13 2015-04-14 2015-04-15 2015-04-29 2015-05-06 2015-05-09
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##          1          1          1          1          1          1
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## 2015-05-27 2015-05-28 2015-06-01 2015-06-08 2015-06-09 2015-06-12
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##          1          1          1          1          1          1
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##          1          1          1          1          1          1
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## 2015-08-06 2015-10-01 2015-10-17 2015-11-02 2015-11-03 2015-11-05
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## 2015-11-25 2015-11-28 2015-12-13 2015-12-16 2015-12-20 2015-12-21
2015-12-24
##          1          1          1          1          1          1
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## 2016-01-04 2016-01-12 2016-01-23 2016-06-11 2016-06-25 2016-07-04
2016-08-07
##          1          1          1          1          1          1
1
## 2016-08-17 2016-11-08 2016-11-30 2017-03-17 2017-08-26 2017-09-02
##          1          1          1          1          1          1
## [1] "Relative frequency table (proportions) sorted"
##
## 2015-10-21 2015-07-06 2016-11-25 2015-01-01 2016-07-13 2015-07-02
2016-12-07
##     0.0106     0.0088     0.0070     0.0054     0.0042     0.0040
0.0040
```

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## 2016-01-18 2017-01-24 2015-10-28 2016-11-21 2015-12-18 2016-09-20
2017-02-28
##     0.0038     0.0036     0.0034     0.0034     0.0032     0.0032
0.0032
## 2015-10-19 2016-02-09 2016-03-18 2017-02-02 2015-08-11 2016-04-15
2016-06-02
##     0.0030     0.0030     0.0030     0.0030     0.0028     0.0028
0.0028
## 2017-02-01 2015-10-15 2016-02-10 2016-04-13 2016-06-20 2016-06-26
2016-07-18
##     0.0028     0.0026     0.0026     0.0026     0.0026     0.0026
0.0026
## 2016-09-06 2016-10-06 2016-10-10 2016-12-12 2017-02-16 2017-03-26
2017-06-22
##     0.0026     0.0026     0.0026     0.0026     0.0026     0.0026
0.0026
## 2017-07-13 2015-07-03 2015-08-21 2015-12-08 2016-01-16 2016-02-20
2016-02-29
##     0.0026     0.0024     0.0024     0.0024     0.0024     0.0024
0.0024
## 2016-03-22 2016-07-19 2016-10-21 2016-10-25 2016-12-11 2016-12-29
2017-02-21
##     0.0024     0.0024     0.0024     0.0024     0.0024     0.0024
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## 2017-02-25 2017-02-26 2017-03-08 2015-09-30 2015-10-04 2015-10-22
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##     0.0024     0.0024     0.0024     0.0022     0.0022     0.0022
0.0022
## 2016-02-15 2016-03-02 2016-03-15 2016-03-24 2016-04-04 2016-04-09
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##     0.0022     0.0022     0.0022     0.0022     0.0022     0.0022
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## 2016-07-05 2016-07-08 2016-07-21 2016-08-29 2016-10-09 2016-10-17
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##     0.0022     0.0022     0.0022     0.0022     0.0022     0.0022
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## 2016-11-14 2016-11-20 2016-11-24 2016-12-09 2017-01-01 2017-01-15
2017-01-19
##     0.0022     0.0022     0.0022     0.0022     0.0022     0.0022
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## 2017-05-05 2017-05-11 2017-05-14 2015-09-29 2015-12-30 2016-01-03
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##     0.0022     0.0022     0.0022     0.0020     0.0020     0.0020
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## 2016-02-14 2016-02-23 2016-03-07 2016-03-28 2016-04-17 2016-04-19
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##     0.0020     0.0020     0.0020     0.0020     0.0020     0.0020
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## 2016-05-29 2016-05-30 2016-06-08 2016-06-09 2016-06-17 2016-06-22
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##     0.0020    0.0020    0.0020    0.0020    0.0020    0.0020
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## 2016-08-15 2016-09-25 2016-09-26 2016-10-07 2017-01-02 2017-02-06
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##     0.0020    0.0020    0.0020    0.0020    0.0020    0.0020
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## 2017-02-19 2017-02-24 2017-03-30 2017-03-31 2017-04-21 2017-05-23
2017-05-24
##     0.0020    0.0020    0.0020    0.0020    0.0020    0.0020
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## 2017-06-28 2015-07-29 2015-09-08 2015-09-09 2015-09-18 2015-09-21
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##     0.0020    0.0018    0.0018    0.0018    0.0018    0.0018
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## 2015-10-18 2015-12-10 2015-12-22 2016-01-11 2016-02-01 2016-02-25
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##     0.0018    0.0018    0.0018    0.0018    0.0018    0.0018
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## 2016-03-21 2016-03-23 2016-04-11 2016-04-27 2016-05-06 2016-05-16
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##     0.0018    0.0018    0.0018    0.0018    0.0018    0.0018
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## 2016-08-03 2016-08-13 2016-08-25 2016-09-03 2016-09-13 2016-09-19
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##     0.0018    0.0018    0.0018    0.0018    0.0018    0.0018
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## 2016-09-28 2016-09-29 2016-10-13 2017-01-03 2017-01-11 2017-02-09
2017-02-18
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## 2017-02-23 2017-04-03 2017-04-19 2017-04-23 2017-05-03 2017-05-17
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##     0.0018    0.0018    0.0018    0.0018    0.0018    0.0018
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## 2017-06-02 2017-06-30 2017-07-18 2017-08-28 2015-09-16 2015-09-25
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##     0.0018    0.0018    0.0018    0.0018    0.0016    0.0016
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## 2015-10-23 2015-11-22 2015-11-23 2016-01-05 2016-01-19 2016-01-28
2016-02-08
##     0.0016    0.0016    0.0016    0.0016    0.0016    0.0016
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## 2016-02-16 2016-02-18 2016-02-26 2016-02-28 2016-03-01 2016-03-06
2016-03-09
##     0.0016    0.0016    0.0016    0.0016    0.0016    0.0016
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## 2016-03-16 2016-03-30 2016-04-03 2016-04-21 2016-05-10 2016-05-11
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##     0.0016    0.0016    0.0016    0.0016    0.0016    0.0016
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## 2016-06-12 2016-07-23 2016-08-02 2016-08-06 2016-08-10 2016-08-26
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## 2016-09-02 2016-09-08 2016-09-15 2016-09-23 2016-10-01 2016-10-03
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##     0.0016     0.0016     0.0016     0.0016     0.0016     0.0016
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## 2016-10-27 2016-10-28 2016-10-29 2016-11-02 2016-11-17 2016-11-18
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##     0.0016     0.0016     0.0016     0.0016     0.0016     0.0016
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## 2017-01-05 2017-01-16 2017-01-17 2017-01-27 2017-01-31 2017-02-03
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## 2017-02-20 2017-02-27 2017-03-06 2017-03-16 2017-04-13 2017-04-24
2017-04-25
##     0.0016     0.0016     0.0016     0.0016     0.0016     0.0016
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## 2017-05-13 2017-05-16 2017-06-04 2017-06-11 2017-06-29 2017-07-24
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##     0.0016     0.0016     0.0016     0.0016     0.0016     0.0016
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## 2017-08-13 2017-08-16 2017-08-27 2015-08-04 2015-08-24 2015-09-15
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## 2017-03-12 2017-03-21 2017-04-06 2017-04-10 2017-04-27 2017-05-01
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##      0.0012      0.0012      0.0012      0.0012      0.0012      0.0012
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##      0.0012      0.0012      0.0012      0.0012      0.0012      0.0012
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##      0.0012      0.0012      0.0012      0.0012      0.0012      0.0012
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##     0.0012     0.0012     0.0012     0.0012     0.0012     0.0012
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##     0.0012     0.0012     0.0012     0.0012     0.0012     0.0012
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##     0.0012     0.0012     0.0012     0.0012     0.0012     0.0012
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2017-07-17
##     0.0012     0.0012     0.0012     0.0012     0.0012     0.0012
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## 2017-07-23 2017-07-27 2017-07-29 2017-08-06 2017-08-30 2014-10-17
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##     0.0012     0.0012     0.0012     0.0012     0.0012     0.0010
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## 2015-06-17 2015-07-10 2015-07-22 2015-08-01 2015-08-07 2015-08-10
2015-09-10
##     0.0010     0.0010     0.0010     0.0010     0.0010     0.0010
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## 2015-09-28 2015-10-03 2015-11-20 2015-12-02 2015-12-23 2016-01-20
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##     0.0010     0.0010     0.0010     0.0010     0.0010     0.0010
0.0010
## 2016-01-24 2016-01-25 2016-02-04 2016-02-06 2016-02-11 2016-02-13
2016-02-17
##     0.0010     0.0010     0.0010     0.0010     0.0010     0.0010
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## 2016-03-05 2016-03-08 2016-03-10 2016-03-11 2016-04-10 2016-04-20
2016-05-03
##     0.0010     0.0010     0.0010     0.0010     0.0010     0.0010
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## 2016-05-04 2016-05-05 2016-05-15 2016-05-18 2016-05-20 2016-05-21
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##        0.0010        0.0010        0.0010        0.0010        0.0010        0.0010
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## 2016-05-27 2016-06-14 2016-06-15 2016-06-16 2016-06-21 2016-07-02
2016-07-06
##        0.0010        0.0010        0.0010        0.0010        0.0010        0.0010
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## 2016-07-09 2016-07-14 2016-07-16 2016-07-22 2016-08-05 2016-08-16
2016-08-19
##        0.0010        0.0010        0.0010        0.0010        0.0010        0.0010
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## 2016-08-24 2016-09-10 2016-09-16 2016-09-30 2016-11-01 2016-11-11
2016-11-13
##        0.0010        0.0010        0.0010        0.0010        0.0010        0.0010
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## 2016-12-01 2016-12-04 2016-12-16 2016-12-17 2016-12-30 2017-01-06
2017-01-09
##        0.0010        0.0010        0.0010        0.0010        0.0010        0.0010
0.0010
## 2017-01-14 2017-01-18 2017-01-22 2017-01-23 2017-01-25 2017-02-12
2017-02-13
##        0.0010        0.0010        0.0010        0.0010        0.0010        0.0010
0.0010
## 2017-02-17 2017-03-01 2017-03-04 2017-03-05 2017-03-09 2017-03-15
2017-03-19
##        0.0010        0.0010        0.0010        0.0010        0.0010        0.0010
0.0010
## 2017-04-02 2017-04-04 2017-04-14 2017-04-18 2017-04-28 2017-05-04
2017-05-06
##        0.0010        0.0010        0.0010        0.0010        0.0010        0.0010
0.0010
## 2017-05-08 2017-05-21 2017-05-29 2017-05-30 2017-05-31 2017-06-01
2017-06-20
##        0.0010        0.0010        0.0010        0.0010        0.0010        0.0010
0.0010
## 2017-06-23 2017-07-05 2017-07-07 2017-07-12 2017-07-19 2017-08-01
2017-08-12
##        0.0010        0.0010        0.0010        0.0010        0.0010        0.0010
0.0010
## 2017-08-17 2017-08-29 2015-01-30 2015-05-14 2015-05-19 2015-06-29
2015-07-08
##        0.0010        0.0010        0.0008        0.0008        0.0008        0.0008
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## 2015-07-14 2015-07-19 2015-07-23 2015-07-26 2015-08-03 2015-08-08
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##        0.0008        0.0008        0.0008        0.0008        0.0008        0.0008
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## 2015-08-13 2015-08-15 2015-08-18 2015-08-19 2015-08-31 2015-09-12
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##     0.0002     0.0002     0.0002     0.0002     0.0002     0.0002
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## 2015-05-27 2015-05-28 2015-06-01 2015-06-08 2015-06-09 2015-06-12
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##     0.0002     0.0002     0.0002     0.0002     0.0002     0.0002
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## 2015-06-15 2015-06-19 2015-06-23 2015-06-25 2015-06-26 2015-07-04
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##      0.0002      0.0002      0.0002      0.0002      0.0002      0.0002
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## 2016-08-17 2016-11-08 2016-11-30 2017-03-17 2017-08-26 2017-09-02
##      0.0002      0.0002      0.0002      0.0002      0.0002      0.0002
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