Online Cryptography Advertisement Data Collection

```
#install.packages('tinytex')
```

```
#tinytex::install_tinytex()
```

Project Overview

A Kenyan entrepreneur has created an online cryptography course and would want to advertise it on her blog. She currently targets audiences originating from various countries. In the past, she ran ads to advertise a related course on the same blog and collected data in the process. She would now like to employ your services as a Data Science Consultant to help her identify which individuals are most likely to click on her ads.

Defining the Research Question Using the data available to us, identify individuals most likely to click on the entrepreneurs advertisements.

Defining our metric for Success We should be able to successfully identify individuals most likely to click on the entrepreneurs

Data Relevance The given data set is relevant to identify individuals most likely to click as the advertisements were run on the same blog.

Experimental Design . Business Understanding . Data Preparation . Data Exploration and Cleaning . Data Analysis . Conclusions . Recommendations

#setting our working directory setwd("C://Users//Revolve//Documents//Basics Practice")

#confirming that our working directory has been set getwd()

##a) Data Preparation

Loading and reading our dataset

```
data <- read.csv('advertising.csv')
```

Accessing Basic Information about our dataset

```
View(data)#shows the values of csv file in a table format
print(nrow(data))#shows number of rows
```

```
## [1] 1000
```

```
print(ncol(data))#shows number of columns
```

```
## [1] 10
```

```
print(colnames(data))#shows column names
```

```
##  [1] "Daily.Time.Spent.on.Site" "Age"
##  [3] "Area.Income"              "Daily.Internet.Usage"
##  [5] "Ad.Topic.Line"            "City"
##  [7] "Male"                     "Country"
##  [9] "Timestamp"                "Clicked.on.Ad"
```

```
print(str(data))#Returns column names with data types and factors
```

```
## 'data.frame':    1000 obs. of  10 variables:
##  $ Daily.Time.Spent.on.Site: num  69 80.2 69.5 74.2 68.4 ...
##  $ Age                     : int  35 31 26 29 35 23 33 48 30 20 ...
##  $ Area.Income             : num  61834 68442 59786 54806 73890 ...
##  $ Daily.Internet.Usage    : num  256 194 236 246 226 ...
##  $ Ad.Topic.Line           : chr  "Cloned 5thgeneration orchestration" "Monitored national standardi
##  $ City                    : chr  "Wrightburgh" "West Jodi" "Davidton" "West Terrifurt" ...
##  $ Male                    : int  0 1 0 1 0 1 0 1 1 1 ...
##  $ Country                 : chr  "Tunisia" "Nauru" "San Marino" "Italy" ...
##  $ Timestamp               : chr  "2016-03-27 00:53:11" "2016-04-04 01:39:02" "2016-03-13 20:35:42"
##  $ Clicked.on.Ad           : int  0 0 0 0 0 0 0 1 0 0 ...
## NULL
```

Our data set has 1000 rows and 10 columns. The dtypes are "int" and "chr". Some of our variables include Country, number of clicks, Gender(Male),City, Age, Daily Internet Usage e.t.c

b) Data Cleaning

We will import the following libraries to aid us in the data cleaning process

```
# Loading funModeling!
library(funModeling)
```

```
## Loading required package: Hmisc
```

```
## Loading required package: lattice
```

```
## Loading required package: survival
```

```
## Loading required package: Formula
```

```
## Loading required package: ggplot2
```

```
##
## Attaching package: 'Hmisc'
```

```
## The following objects are masked from 'package:base':
##
##     format.pval, units
```

```
## funModeling v.1.9.4 :)
## Examples and tutorials at livebook.datascienceheroes.com
##  / Now in Spanish: librovivodecienciadedatos.ai
```

```
library(dplyr)
```

```
##
## Attaching package: 'dplyr'

## The following objects are masked from 'package:Hmisc':
##
##     src, summarize

## The following objects are masked from 'package:stats':
##
##     filter, lag

## The following objects are masked from 'package:base':
##
##     intersect, setdiff, setequal, union
```

```
library(tidyr)
library(ggplot2)
library(pander)
library(forcats)
```

We will profile our data set to find missing values, zeros, unique values and filter or remove where appropriate

```
df_status(data)#function can help us by showing these numbers in relative and percentage values. It als
```

```
##                    variable q_zeros p_zeros q_na p_na q_inf p_inf      type
## 1  Daily.Time.Spent.on.Site       0     0.0    0    0     0     0   numeric
## 2                       Age       0     0.0    0    0     0     0   integer
## 3             Area.Income       0     0.0    0    0     0     0   numeric
## 4     Daily.Internet.Usage       0     0.0    0    0     0     0   numeric
## 5            Ad.Topic.Line       0     0.0    0    0     0     0 character
## 6                     City       0     0.0    0    0     0     0 character
## 7                     Male     519    51.9    0    0     0     0   integer
## 8                  Country       0     0.0    0    0     0     0 character
## 9                Timestamp       0     0.0    0    0     0     0 character
## 10           Clicked.on.Ad     500    50.0    0    0     0     0   integer
##    unique
## 1     900
## 2      43
## 3    1000
## 4     966
## 5    1000
## 6     969
## 7       2
## 8     237
## 9    1000
## 10      2
```

```
sum(is.na(data))#confirming there are no Null values
```

```
## [1] 0
```

```
# checking for duplicates
duplicated_rows <- colSums(data[duplicated(data),])
duplicated_rows
```

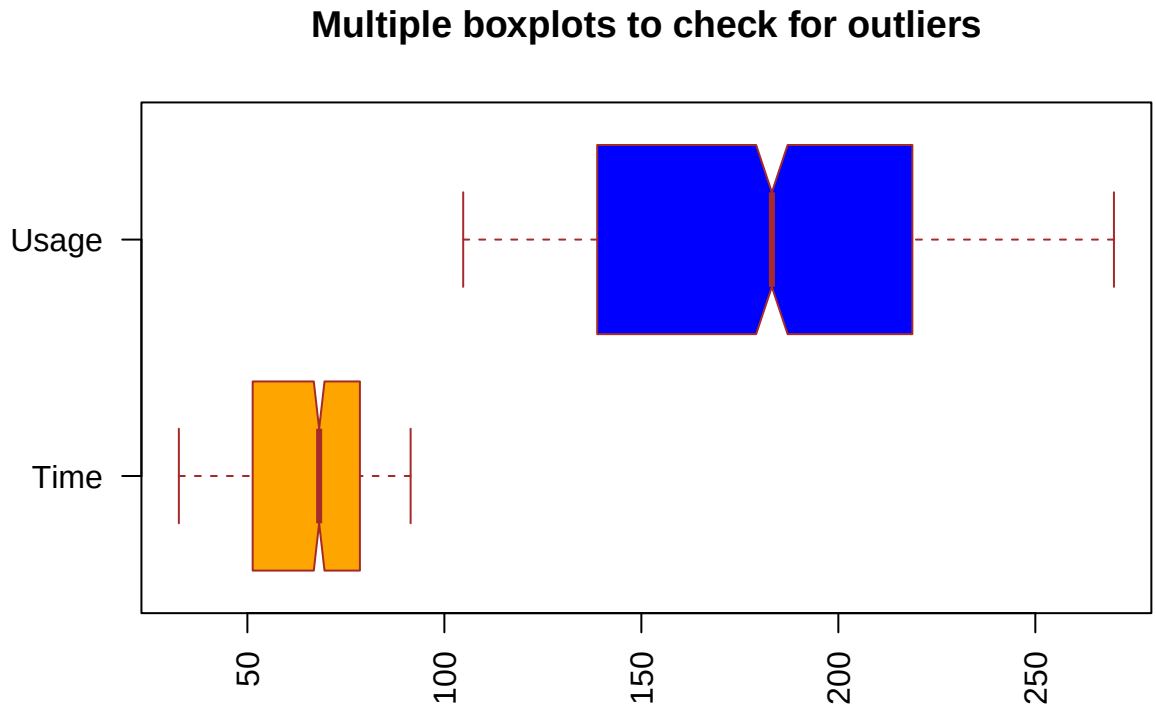
```
## Daily.Time.Spent.on.Site                     Age             Area.Income
##                        0                       0                       0
##     Daily.Internet.Usage          Ad.Topic.Line                    City
##                        0                       0                       0
##                     Male                 Country               Timestamp
##                        0                       0                       0
##            Clicked.on.Ad
##                        0
```

From the above we can deduce that there are two categorical variables as shown by their binary output(unique values: 2). Our dataset has no missing values and 50% amount of zeros in the Male and Clicked on Ad columns which happen to be our categorical variables

Finding Outliers We will proceed to check whether our data has any outstanding outliers using boxplots

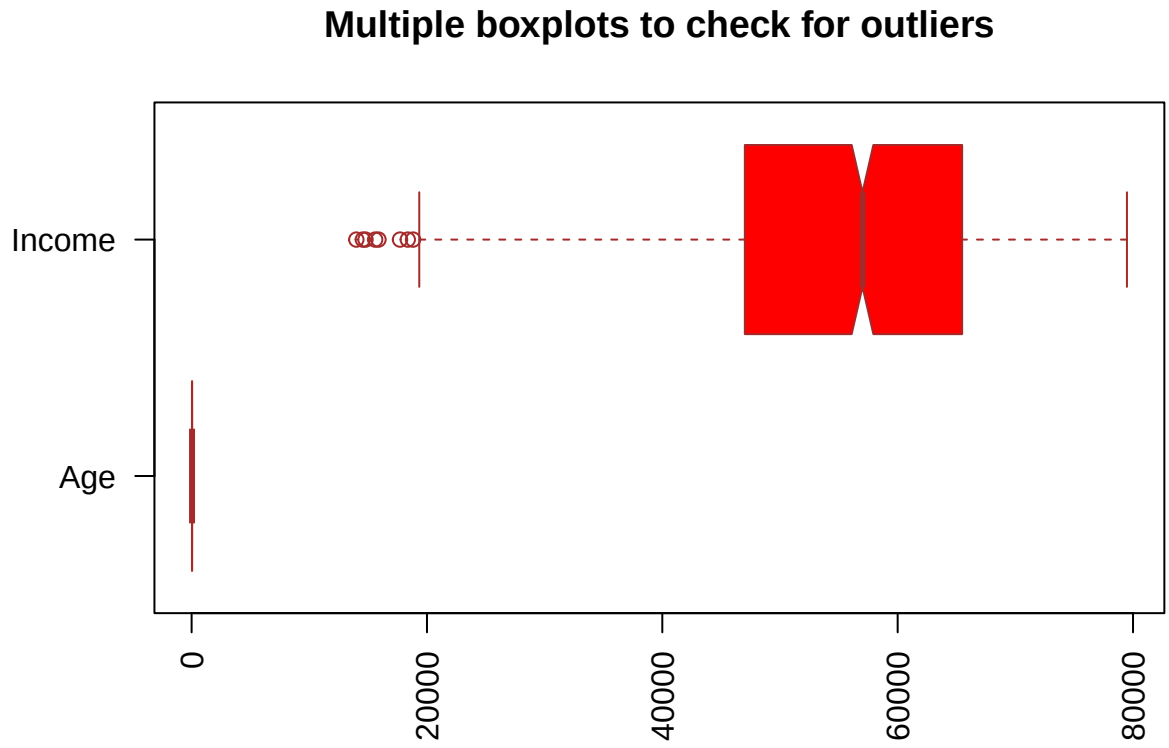
```
Age <- data$Age
Daily_Time_Spent_on_Site <- data$ Daily.Time.Spent.on.Site
Daily_Internet_Usage <- data$Daily.Internet.Usage
Area_Income <- data$Area.Income


boxplot(Daily_Time_Spent_on_Site, Daily_Internet_Usage,
main = "Multiple boxplots to check for outliers",
at = c(1,2),
names = c("Time", "Usage"),
las = 2,
col = c("orange", "blue"),
border = "brown",
horizontal = TRUE,
notch = TRUE
)
```



There are no outliers

```
boxplot(Age, Area_Income ,
main = "Multiple boxplots to check for outliers",
at = c(1,2),
names = c("Age", "Income"),
las = 2,
col = c("orange", "red"),
border = "brown",
horizontal = TRUE,
notch = TRUE
)
```



There are some outliers in the Area Income Col. We will not remove the outliers as we are not sure of the context of area income.

Our dataset has a timestamp in date/time/month format which we will try to separate them into day, time and month format.

```
library(lubridate)
```

```
##
## Attaching package: 'lubridate'
```

```
## The following objects are masked from 'package:base':
##
##     date, intersect, setdiff, union
```

```
# Separate or mutate the Date/Time columns
data$Date.Time <- ymd_hms(data$Timestamp)
data$Year <- factor(year(data$Timestamp))
data$Month <- factor(month(data$Timestamp))
data$Day <- factor(day(data$Timestamp))
data$Weekday <- factor(wday(data$Timestamp))
data$Hour <- factor(hour(data$Timestamp))
data$Minute <- factor(minute(data$Timestamp))
data$Second <- factor(second(data$Timestamp))
```

Lets check out the first 10 records in our data to see how the new dataset looks like

```
#data <- subset(data, select = -c(8)) #Dropping the timestamp column since we already separated our dat

#head(data, n=10)
```

c) Exploratory Data Analyis

Descriptive Analysis

```
#install.packages("lessR")
#library("lessR")
```

Measures of Central Tendancy MEAN

```
x2 <- list(mean(data$Age), mean(data$Daily.Time.Spent.on.Site), mean(data$Daily.Internet.Usage), mean(da

for(i in x2) {

  print(paste("The mean is", i))#Displays the mean of our numerical variables: Age, Daily Time Spent on
}
```

```
## [1] "The mean is 36.009"
## [1] "The mean is 65.0002"
## [1] "The mean is 180.0001"
## [1] "The mean is 55000.00008"
```

MEDIAN

```
median(data$Age)
```

```
## [1] 35
```

```
median(data$Daily.Time.Spent.on.Site)
```

```
## [1] 68.215
```

```
median(data$Daily.Internet.Usage)
```

```
## [1] 183.13
```

```
median(data$Area.Income) #Displays the median of our numerical variables: Age, Daily Time Spent on Site
```

```
## [1] 57012.3
```

MODE While mode is not exactly a measure of central tendancy, we will try to find the most frequent values across our variables

```
#install.packages("DescTools")
#library ("DescTools")
getmode <- function(v) {
   uniqv <- unique(v)
   uniqv[which.max(tabulate(match(v, uniqv)))]
}

age.mode = getmode(data$Age)
dailytime.mode = getmode(data$Daily.Time.Spent.on.Site)
dailyusage.mode = getmode(data$Daily.Internet.Usage)
aincome.mode = getmode(data$Area.Income)


print(dailytime.mode) ##Displays the median of our numerical variables: Age, #Daily Time Spent on Site,
```

```
## [1] 62.26
```

```
print(age.mode)
```

```
## [1] 31
```

```
print(aincome.mode)
```

```
## [1] 61833.9
```

```
print(dailyusage.mode)
```

```
## [1] 167.22
```

Measures of dispersion Standard deviation

```
sd(data$Age)
```

```
## [1] 8.785562
```

```
sd(data$Daily.Time.Spent.on.Site)
```

```
## [1] 15.85361
```

```
sd(data$Daily.Internet.Usage)
```

```
## [1] 43.90234
```

```
sd(data$Area.Income) #Displays the standard of our numerical variables: Age, Daily Time Spent on Site, A
```

```
## [1] 13414.63
```

Range

```
range(data$Age)
```

```
## [1] 19 61
```

```
range(data$Daily.Time.Spent.on.Site)
```

```
## [1] 32.60 91.43
```

```
range(data$Daily.Internet.Usage)
```

```
## [1] 104.78 269.96
```

```
range(data$Area.Income) #Displays the range of our numerical variables: Age, Daily Time Spent on Site,
```

```
## [1] 13996.5 79484.8
```

Min

```
min(data$Age)
```

```
## [1] 19
```

```
min(data$Daily.Time.Spent.on.Site)
```

```
## [1] 32.6
```

```
min(data$Daily.Internet.Usage)
```

```
## [1] 104.78
```

```
min(data$Area.Income) #Displays the minimum value of our numerical variables: Age, Daily Time Spent on
```

```
## [1] 13996.5
```

Max

```
max(data$Age)
```

```
## [1] 61
```

```
max(data$Daily.Time.Spent.on.Site)
```

```
## [1] 91.43
```

```
max(data$Daily.Internet.Usage)
```

```
## [1] 269.96
```

```
max(data$Area.Income) #Displays the maximum value of our numerical variables: Age, Daily Time Spent on
```

```
## [1] 79484.8
```

Skewness

```
library(moments)
```

```
skewness(data$Age)
```

```
## [1] 0.4784227
```

```
skewness(data$Daily.Time.Spent.on.Site)
```

```
## [1] -0.3712026
```

```
skewness(data$Daily.Internet.Usage)
```

```
## [1] -0.03348703
```

```
skewness(data$Area.Income) #Displays the skewness of our numerical variables: Age, Daily Time Spent on
```

```
## [1] -0.6493967
```

Kurtosis

```
kurtosis(data$Age)
```

```
## [1] 2.595482
```

```
kurtosis(data$Daily.Time.Spent.on.Site)
```

```
## [1] 1.903942
```

```
kurtosis(data$Daily.Internet.Usage)
```

```
## [1] 1.727701
```

```
kurtosis(data$Area.Income) #Displays the kurtosis of our numerical variables: Age, Daily Time Spent on
```

```
## [1] 2.894694
```

The distribution of the Age variable is positively skewed meaning its tail is on the right side while the rest of the variables are negatively skewed while all the variable have a negative kurtosis implying thin tails.

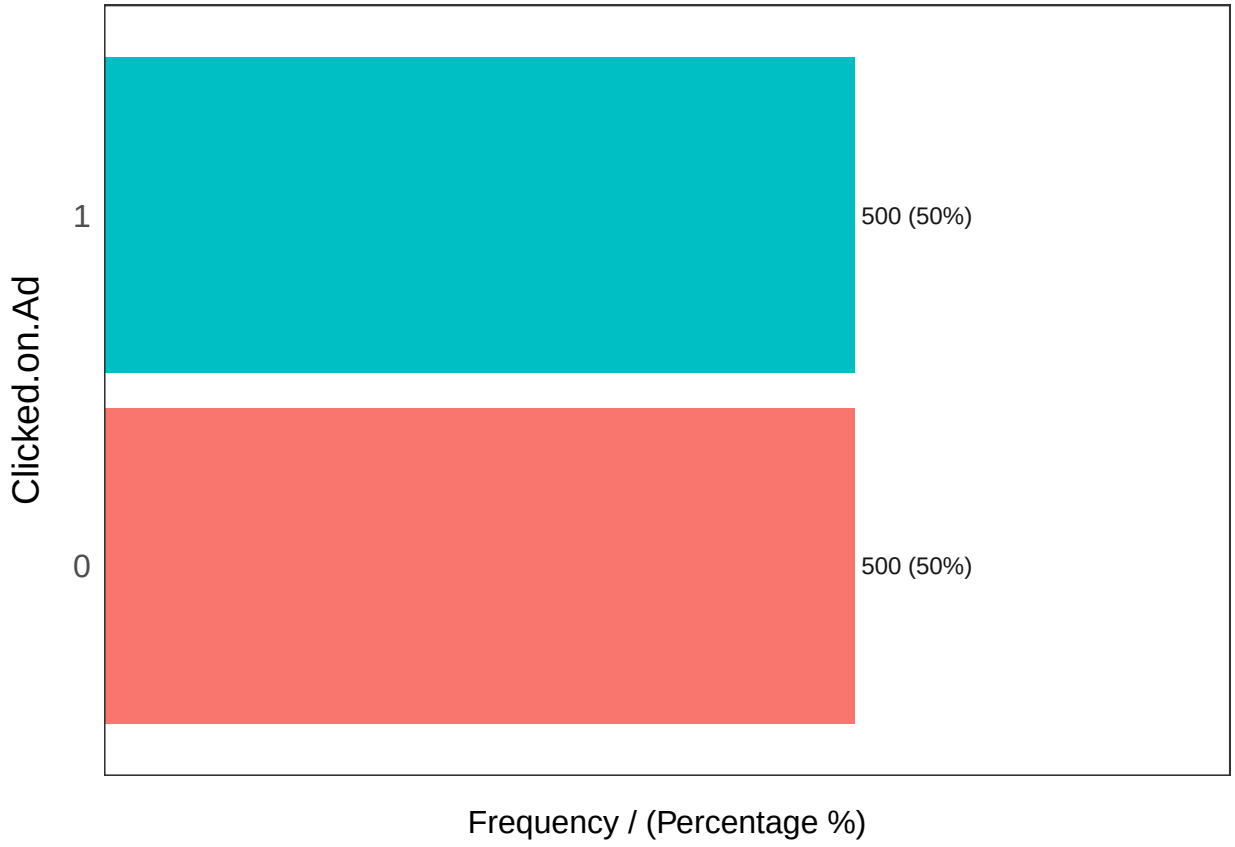
Uni variate visualizations

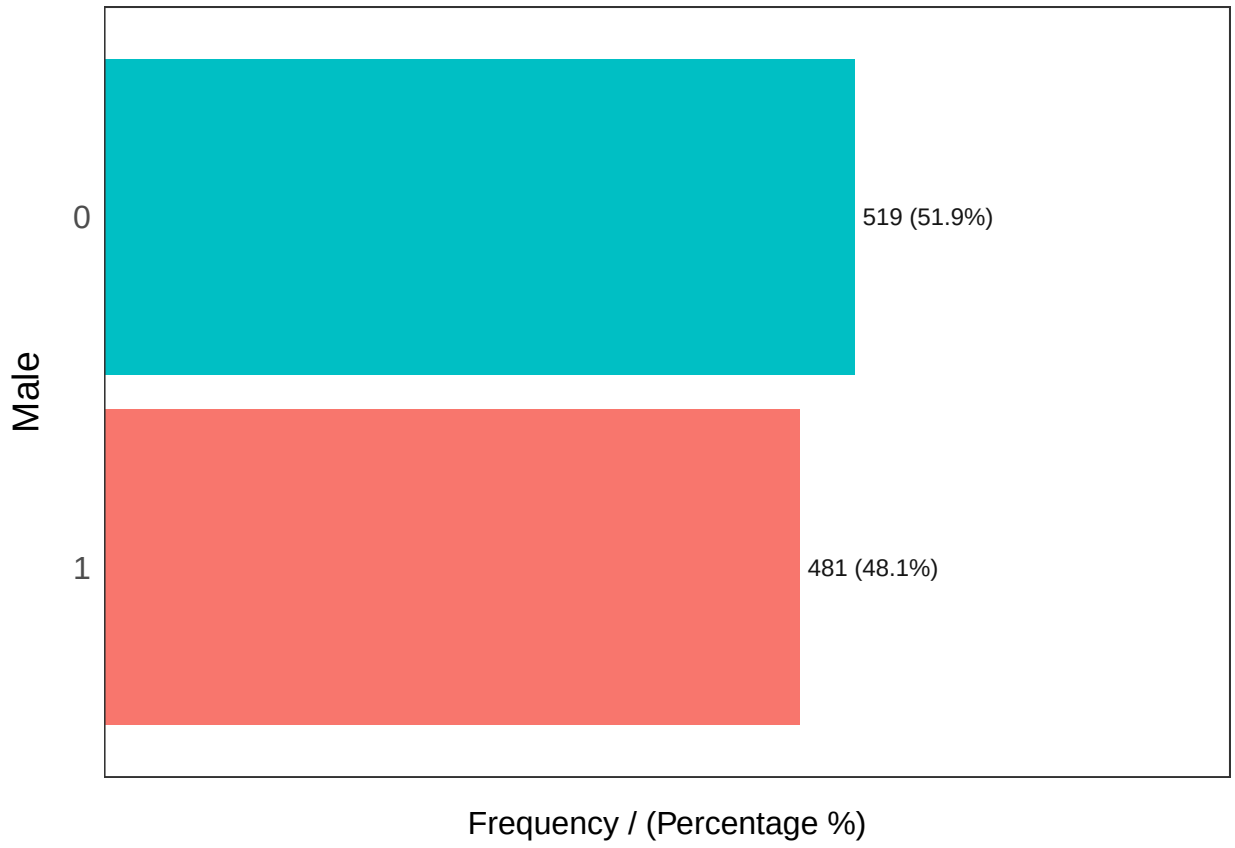
```
#Profiling our Categorical variables
freq(data=data, input = c('Clicked.on.Ad','Male'))
```

```
## Warning: `guides(<scale> = FALSE)` is deprecated. Please use `guides(<scale> =
## "none")` instead.
```

```
##   Clicked.on.Ad frequency percentage cumulative_perc
## 1             0       500         50              50
## 2             1       500         50             100
```

```
## Warning: `guides(<scale> = FALSE)` is deprecated. Please use `guides(<scale> =
## "none")` instead.
```





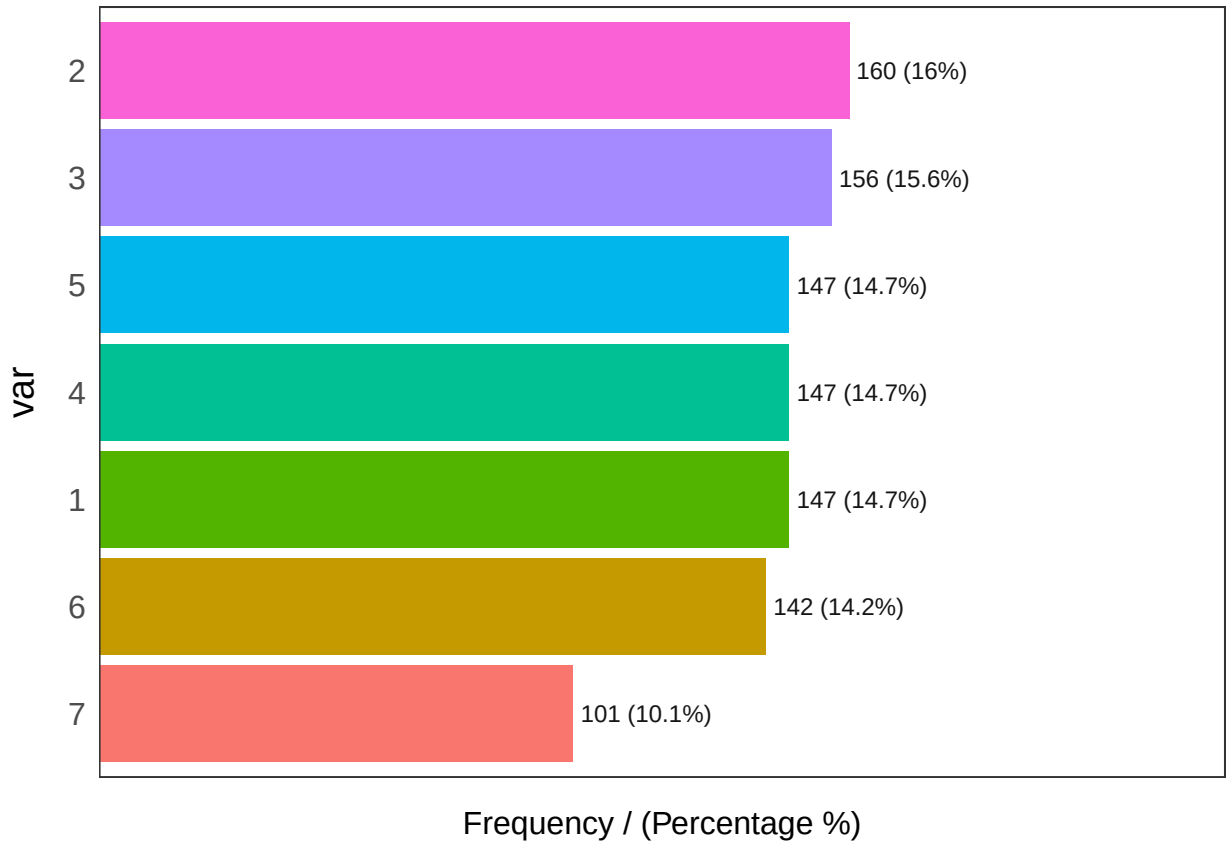

```
##   Male frequency percentage cumulative_perc
## 1    0       519       51.9            51.9
## 2    1       481       48.1           100.0
```

```
## [1] "Variables processed: Clicked.on.Ad, Male"
```

48.1% of our subjects are male while 51.9% are not as depicted above while the click on adds is balanced (50-50%)

```
freq(data=data$Month)
```

```
## Warning: `guides(<scale> = FALSE)` is deprecated. Please use `guides(<scale> =
## "none")` instead.
```

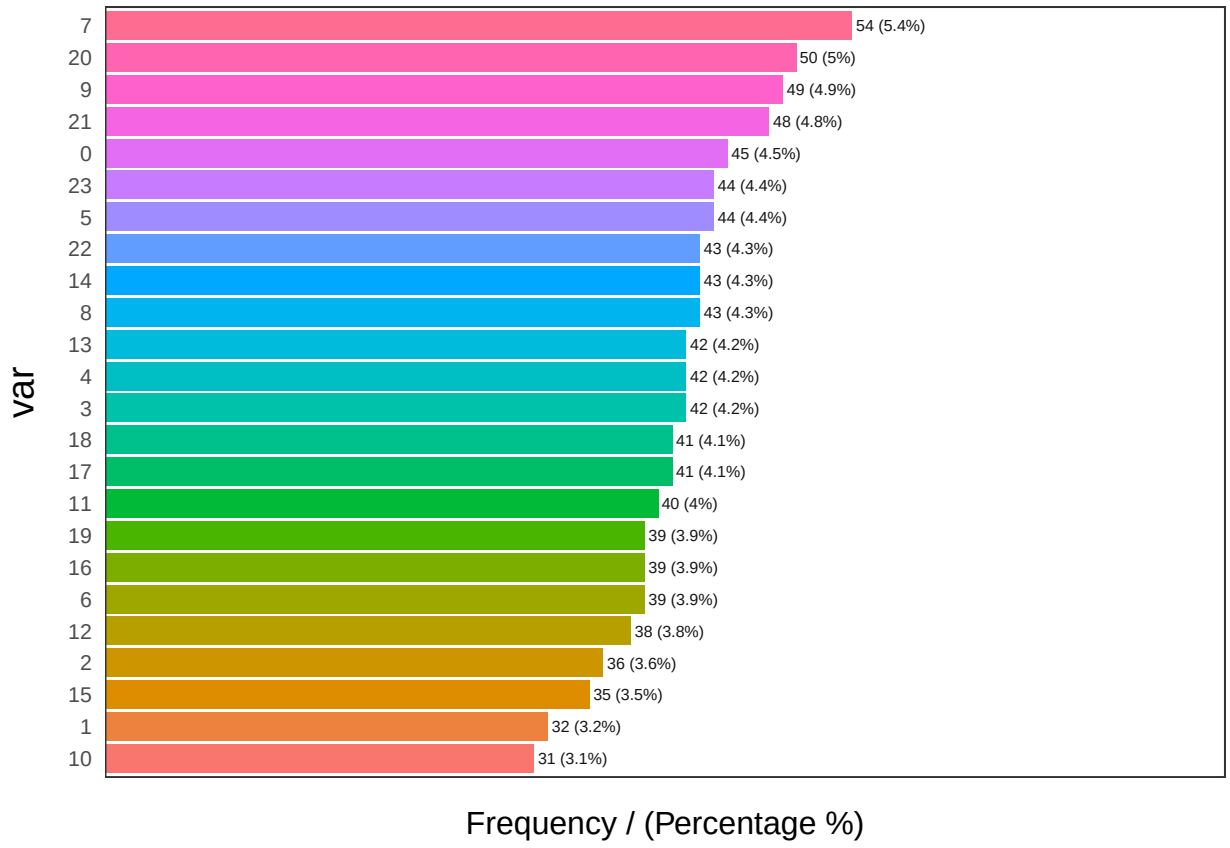



```
##   var frequency percentage cumulative_perc
## 1   2       160       16.0            16.0
## 2   3       156       15.6            31.6
## 3   1       147       14.7            46.3
## 4   4       147       14.7            61.0
## 5   5       147       14.7            75.7
## 6   6       142       14.2            89.9
## 7   7       101       10.1           100.0
```

Most users were active in February

```
freq(data=data$Hour)
```

```
## Warning: `guides(<scale> = FALSE)` is deprecated. Please use `guides(<scale> =
## "none")` instead.
```




```
##    var frequency percentage cumulative_perc
## 1    7        54        5.4              5.4
## 2   20        50        5.0             10.4
## 3    9        49        4.9             15.3
## 4   21        48        4.8             20.1
## 5    0        45        4.5             24.6
## 6    5        44        4.4             29.0
## 7   23        44        4.4             33.4
## 8    8        43        4.3             37.7
## 9   14        43        4.3             42.0
## 10  22        43        4.3             46.3
## 11   3        42        4.2             50.5
## 12   4        42        4.2             54.7
## 13  13        42        4.2             58.9
## 14  17        41        4.1             63.0
## 15  18        41        4.1             67.1
## 16  11        40        4.0             71.1
## 17   6        39        3.9             75.0
## 18  16        39        3.9             78.9
## 19  19        39        3.9             82.8
## 20  12        38        3.8             86.6
## 21   2        36        3.6             90.2
## 22  15        35        3.5             93.7
## 23   1        32        3.2             96.9
## 24  10        31        3.1            100.0
```

Most users were active at 7am.

```
freq(data=data$Country)
```

```
## Warning in freq_logic(data = data, input = input, plot, na.rm, path_out =
## path_out): Skipping plot for variable 'var' (more than 100 categories)
```

```
##                                          var frequency percentage
## 1                             Czech Republic         9        0.9
## 2                                     France         9        0.9
## 3                                Afghanistan         8        0.8
## 4                                  Australia         8        0.8
## 5                                     Cyprus         8        0.8
## 6                                     Greece         8        0.8
## 7                                    Liberia         8        0.8
## 8                                  Micronesia         8        0.8
## 9                                       Peru         8        0.8
## 10                                   Senegal         8        0.8
## 11                              South Africa         8        0.8
## 12                                    Turkey         8        0.8
## 13                                   Albania         7        0.7
## 14                                   Bahamas         7        0.7
## 15                    Bosnia and Herzegovina         7        0.7
## 16                                   Burundi         7        0.7
## 17                                  Cambodia         7        0.7
## 18                                   Eritrea         7        0.7
## 19                                  Ethiopia         7        0.7
## 20                                      Fiji         7        0.7
## 21                                Luxembourg         7        0.7
## 22                                    Taiwan         7        0.7
## 23                                 Venezuela         7        0.7
## 24                            Western Sahara         7        0.7
## 25                                   Algeria         6        0.6
## 26                                  Anguilla         6        0.6
## 27                                   Belarus         6        0.6
## 28                                   Bolivia         6        0.6
## 29                                  Bulgaria         6        0.6
## 30                                     China         6        0.6
## 31                           Christmas Island         6        0.6
## 32                                Costa Rica         6        0.6
## 33                                   Croatia         6        0.6
## 34                               El Salvador         6        0.6
## 35                                     Gabon         6        0.6
## 36                                 Hong Kong         6        0.6
## 37                                   Hungary         6        0.6
## 38                                 Indonesia         6        0.6
## 39                                    Jersey         6        0.6
## 40                           Kyrgyz Republic         6        0.6
## 41                                   Lebanon         6        0.6
## 42                              Liechtenstein         6        0.6
## 43                                 Madagascar         6        0.6
## 44                                      Malta         6        0.6
## 45                                    Mayotte         6        0.6
```

```
## 46                                    Mexico     6     0.6
## 47                                   Moldova     6     0.6
## 48                                  Mongolia     6     0.6
## 49                      Netherlands Antilles     6     0.6
## 50                               Philippines     6     0.6
## 51                                    Poland     6     0.6
## 52                               Puerto Rico     6     0.6
## 53                                     Qatar     6     0.6
## 54  Saint Vincent and the Grenadines           6     0.6
## 55                                     Samoa     6     0.6
## 56                                 Singapore     6     0.6
## 57      Svalbard & Jan Mayen Islands           6     0.6
## 58                               Turkmenistan     6     0.6
## 59                      United Arab Emirates     6     0.6
## 60                                   Vanuatu     6     0.6
## 61                                  Zimbabwe     6     0.6
## 62                            American Samoa     5     0.5
## 63                       Antigua and Barbuda     5     0.5
## 64                                   Austria     5     0.5
## 65                                   Bahrain     5     0.5
## 66                                  Barbados     5     0.5
## 67                                   Belgium     5     0.5
## 68                                    Belize     5     0.5
## 69        Bouvet Island (Bouvetoya)           5     0.5
## 70                                    Brazil     5     0.5
## 71                      Brunei Darussalam     5     0.5
## 72                                  Cameroon     5     0.5
## 73                                    Canada     5     0.5
## 74                             Cayman Islands     5     0.5
## 75                                      Cuba     5     0.5
## 76                                  Dominica     5     0.5
## 77                                   Ecuador     5     0.5
## 78                                     Egypt     5     0.5
## 79                                   Finland     5     0.5
## 80                            French Polynesia     5     0.5
## 81          French Southern Territories       5     0.5
## 82                                 Greenland     5     0.5
## 83                                    Guyana     5     0.5
## 84                                  Honduras     5     0.5
## 85                                      Iran     5     0.5
## 86                                     Italy     5     0.5
## 87                                   Jamaica     5     0.5
## 88                                     Korea     5     0.5
## 89                                   Myanmar     5     0.5
## 90                              Norfolk Island     5     0.5
## 91                                  Pakistan     5     0.5
## 92                          Papua New Guinea     5     0.5
## 93                                    Rwanda     5     0.5
## 94                                Saint Helena     5     0.5
## 95              Saint Pierre and Miquelon      5     0.5
## 96                                    Serbia     5     0.5
## 97                                   Somalia     5     0.5
## 98                                Timor-Leste     5     0.5
## 99                                     Tonga     5     0.5
```

```
## 100                          Turks and Caicos Islands        5        0.5
## 101                                           Ukraine        5        0.5
## 102                             United States of America        5        0.5
## 103                                           Uruguay        5        0.5
## 104                                            Angola        4        0.4
## 105                                        Bangladesh        4        0.4
## 106                                      Burkina Faso        4        0.4
## 107                                              Chad        4        0.4
## 108                                             Chile        4        0.4
## 109                                             Congo        4        0.4
## 110                                     Cote d'Ivoire        4        0.4
## 111                                Dominican Republic        4        0.4
## 112                                 Equatorial Guinea        4        0.4
## 113                       Falkland Islands (Malvinas)        4        0.4
## 114                                    French Guiana        4        0.4
## 115                                          Georgia        4        0.4
## 116                                            Ghana        4        0.4
## 117                                          Grenada        4        0.4
## 118                                             Guam        4        0.4
## 119                                        Guatemala        4        0.4
## 120                                           Israel        4        0.4
## 121                                            Japan        4        0.4
## 122                                       Kazakhstan        4        0.4
## 123                                            Kenya        4        0.4
## 124                    Lao People's Democratic Republic        4        0.4
## 125                                           Latvia        4        0.4
## 126                             Libyan Arab Jamahiriya        4        0.4
## 127                                           Malawi        4        0.4
## 128                                         Maldives        4        0.4
## 129                                             Mali        4        0.4
## 130                                        Martinique        4        0.4
## 131                                         Mauritius        4        0.4
## 132                                       Netherlands        4        0.4
## 133                                       New Zealand        4        0.4
## 134                                             Palau        4        0.4
## 135                                       Saint Martin        4        0.4
## 136                                       Saudi Arabia        4        0.4
## 137                                          Sri Lanka        4        0.4
## 138                                             Sweden        4        0.4
## 139                                        Switzerland        4        0.4
## 140                                           Thailand        4        0.4
## 141                                            Tokelau        4        0.4
## 142                                            Tunisia        4        0.4
## 143                                             Tuvalu        4        0.4
## 144                                             Uganda        4        0.4
## 145                United States Minor Outlying Islands        4        0.4
## 146                       United States Virgin Islands        4        0.4
## 147                                   Wallis and Futuna        4        0.4
## 148                                             Zambia        4        0.4
## 149          Antarctica (the territory South of 60 deg S)        3        0.3
## 150                                           Armenia        3        0.3
## 151                                        Azerbaijan        3        0.3
## 152                              British Virgin Islands        3        0.3
## 153                                       Cook Islands        3        0.3
```

```
## 154                                  Denmark         3         0.3
## 155                                  Estonia         3         0.3
## 156                            Faroe Islands         3         0.3
## 157                                Gibraltar         3         0.3
## 158                                 Guernsey         3         0.3
## 159                                   Guinea         3         0.3
## 160     Heard Island and McDonald Islands         3         0.3
## 161         Holy See (Vatican City State)         3         0.3
## 162                                  Iceland         3         0.3
## 163                                  Ireland         3         0.3
## 164                                Isle of Man         3         0.3
## 165                                Lithuania         3         0.3
## 166                                    Macao         3         0.3
## 167                                 Malaysia         3         0.3
## 168                                   Monaco         3         0.3
## 169                                  Morocco         3         0.3
## 170                                    Nauru         3         0.3
## 171                                    Nepal         3         0.3
## 172                                Nicaragua         3         0.3
## 173                                    Niger         3         0.3
## 174                                     Niue         3         0.3
## 175             Northern Mariana Islands         3         0.3
## 176                Palestinian Territory         3         0.3
## 177                             Paraguay         3         0.3
## 178                             Portugal         3         0.3
## 179                   Russian Federation         3         0.3
## 180                            San Marino         3         0.3
## 181                           Seychelles         3         0.3
## 182                                Spain         3         0.3
## 183                  Syrian Arab Republic         3         0.3
## 184                             Tajikistan         3         0.3
## 185                               Tanzania         3         0.3
## 186                                   Togo         3         0.3
## 187                    Trinidad and Tobago         3         0.3
## 188                         United Kingdom         3         0.3
## 189                                Vietnam         3         0.3
## 190                                  Yemen         3         0.3
## 191                                Andorra         2         0.2
## 192                              Argentina         2         0.2
## 193                                  Benin         2         0.2
## 194                                 Bhutan         2         0.2
## 195           Central African Republic         2         0.2
## 196                               Colombia         2         0.2
## 197                                Comoros         2         0.2
## 198                               Djibouti         2         0.2
## 199                                 Gambia         2         0.2
## 200                              Guadeloupe         2         0.2
## 201                           Guinea-Bissau         2         0.2
## 202                                   Haiti         2         0.2
## 203                                   India         2         0.2
## 204                                  Kuwait         2         0.2
## 205                               Macedonia         2         0.2
## 206                              Mauritania         2         0.2
## 207                              Montenegro         2         0.2
```

```
## 208                                          Namibia         2        0.2
## 209                                      New Caledonia         2        0.2
## 210                                             Norway         2        0.2
## 211                                             Panama         2        0.2
## 212                                    Pitcairn Islands         2        0.2
## 213                                            Reunion         2        0.2
## 214                                   Saint Barthelemy         2        0.2
## 215                                        Saint Lucia         2        0.2
## 216                                  Sao Tome and Principe         2        0.2
## 217                                       Sierra Leone         2        0.2
## 218                               Slovakia (Slovak Republic)         2        0.2
## 219       South Georgia and the South Sandwich Islands         2        0.2
## 220                                              Sudan         2        0.2
## 221                                           Suriname         2        0.2
## 222                                          Swaziland         2        0.2
## 223                                         Uzbekistan         2        0.2
## 224                                              Aruba         1        0.1
## 225                                            Bermuda         1        0.1
## 226 British Indian Ocean Territory (Chagos Archipelago)         1        0.1
## 227                                         Cape Verde         1        0.1
## 228                                            Germany         1        0.1
## 229                                             Jordan         1        0.1
## 230                                           Kiribati         1        0.1
## 231                                            Lesotho         1        0.1
## 232                                    Marshall Islands         1        0.1
## 233                                         Montserrat         1        0.1
## 234                                         Mozambique         1        0.1
## 235                                            Romania         1        0.1
## 236                                  Saint Kitts and Nevis         1        0.1
## 237                                           Slovenia         1        0.1
##     cumulative_perc
## 1               0.9
## 2               1.8
## 3               2.6
## 4               3.4
## 5               4.2
## 6               5.0
## 7               5.8
## 8               6.6
## 9               7.4
## 10              8.2
## 11              9.0
## 12              9.8
## 13             10.5
## 14             11.2
## 15             11.9
## 16             12.6
## 17             13.3
## 18             14.0
## 19             14.7
## 20             15.4
## 21             16.1
## 22             16.8
## 23             17.5
```

```
## 24            18.2
## 25            18.8
## 26            19.4
## 27            20.0
## 28            20.6
## 29            21.2
## 30            21.8
## 31            22.4
## 32            23.0
## 33            23.6
## 34            24.2
## 35            24.8
## 36            25.4
## 37            26.0
## 38            26.6
## 39            27.2
## 40            27.8
## 41            28.4
## 42            29.0
## 43            29.6
## 44            30.2
## 45            30.8
## 46            31.4
## 47            32.0
## 48            32.6
## 49            33.2
## 50            33.8
## 51            34.4
## 52            35.0
## 53            35.6
## 54            36.2
## 55            36.8
## 56            37.4
## 57            38.0
## 58            38.6
## 59            39.2
## 60            39.8
## 61            40.4
## 62            40.9
## 63            41.4
## 64            41.9
## 65            42.4
## 66            42.9
## 67            43.4
## 68            43.9
## 69            44.4
## 70            44.9
## 71            45.4
## 72            45.9
## 73            46.4
## 74            46.9
## 75            47.4
## 76            47.9
## 77            48.4
```

```
## 78            48.9
## 79            49.4
## 80            49.9
## 81            50.4
## 82            50.9
## 83            51.4
## 84            51.9
## 85            52.4
## 86            52.9
## 87            53.4
## 88            53.9
## 89            54.4
## 90            54.9
## 91            55.4
## 92            55.9
## 93            56.4
## 94            56.9
## 95            57.4
## 96            57.9
## 97            58.4
## 98            58.9
## 99            59.4
## 100           59.9
## 101           60.4
## 102           60.9
## 103           61.4
## 104           61.8
## 105           62.2
## 106           62.6
## 107           63.0
## 108           63.4
## 109           63.8
## 110           64.2
## 111           64.6
## 112           65.0
## 113           65.4
## 114           65.8
## 115           66.2
## 116           66.6
## 117           67.0
## 118           67.4
## 119           67.8
## 120           68.2
## 121           68.6
## 122           69.0
## 123           69.4
## 124           69.8
## 125           70.2
## 126           70.6
## 127           71.0
## 128           71.4
## 129           71.8
## 130           72.2
## 131           72.6
```

```
## 132          73.0
## 133          73.4
## 134          73.8
## 135          74.2
## 136          74.6
## 137          75.0
## 138          75.4
## 139          75.8
## 140          76.2
## 141          76.6
## 142          77.0
## 143          77.4
## 144          77.8
## 145          78.2
## 146          78.6
## 147          79.0
## 148          79.4
## 149          79.7
## 150          80.0
## 151          80.3
## 152          80.6
## 153          80.9
## 154          81.2
## 155          81.5
## 156          81.8
## 157          82.1
## 158          82.4
## 159          82.7
## 160          83.0
## 161          83.3
## 162          83.6
## 163          83.9
## 164          84.2
## 165          84.5
## 166          84.8
## 167          85.1
## 168          85.4
## 169          85.7
## 170          86.0
## 171          86.3
## 172          86.6
## 173          86.9
## 174          87.2
## 175          87.5
## 176          87.8
## 177          88.1
## 178          88.4
## 179          88.7
## 180          89.0
## 181          89.3
## 182          89.6
## 183          89.9
## 184          90.2
## 185          90.5
```

```
## 186           90.8
## 187           91.1
## 188           91.4
## 189           91.7
## 190           92.0
## 191           92.2
## 192           92.4
## 193           92.6
## 194           92.8
## 195           93.0
## 196           93.2
## 197           93.4
## 198           93.6
## 199           93.8
## 200           94.0
## 201           94.2
## 202           94.4
## 203           94.6
## 204           94.8
## 205           95.0
## 206           95.2
## 207           95.4
## 208           95.6
## 209           95.8
## 210           96.0
## 211           96.2
## 212           96.4
## 213           96.6
## 214           96.8
## 215           97.0
## 216           97.2
## 217           97.4
## 218           97.6
## 219           97.8
## 220           98.0
## 221           98.2
## 222           98.4
## 223           98.6
## 224           98.7
## 225           98.8
## 226           98.9
## 227           99.0
## 228           99.1
## 229           99.2
## 230           99.3
## 231           99.4
## 232           99.5
## 233           99.6
## 234           99.7
## 235           99.8
## 236           99.9
## 237          100.0
```

Most users were from Czetch Republic and France.

```
freq(data=data$City)
```

```
## Warning in freq_logic(data = data, input = input, plot, na.rm, path_out =
## path_out): Skipping plot for variable 'var' (more than 100 categories)
```

```
##                        var frequency percentage cumulative_perc
## 1                Lisamouth         3        0.3              0.3
## 2             Williamsport         3        0.3              0.6
## 3          Benjaminchester         2        0.2              0.8
## 4                East John         2        0.2              1.0
## 5             East Timothy         2        0.2              1.2
## 6                 Johnstad         2        0.2              1.4
## 7                 Joneston         2        0.2              1.6
## 8               Lake David         2        0.2              1.8
## 9               Lake James         2        0.2              2.0
## 10               Lake Jose         2        0.2              2.2
## 11            Lake Patrick         2        0.2              2.4
## 12              Lake Susan         2        0.2              2.6
## 13            Michelleside         2        0.2              2.8
## 14              Millerbury         2        0.2              3.0
## 15              Millertown         2        0.2              3.2
## 16          New Jessicaport         2        0.2              3.4
## 17              New Sheila         2        0.2              3.6
## 18            North Daniel         2        0.2              3.8
## 19             Pamelamouth         2        0.2              4.0
## 20              Port Jason         2        0.2              4.2
## 21               Port Juan         2        0.2              4.4
## 22              Port Julie         2        0.2              4.6
## 23              Robertfurt         2        0.2              4.8
## 24              Shelbyport         2        0.2              5.0
## 25              South Lisa         2        0.2              5.2
## 26             West Amanda         2        0.2              5.4
## 27            West Shannon         2        0.2              5.6
## 28             West Steven         2        0.2              5.8
## 29             Wrightburgh         2        0.2              6.0
## 30               Adamsbury         1        0.1              6.1
## 31                Adamside         1        0.1              6.2
## 32               Adamsstad         1        0.1              6.3
## 33                Alanview         1        0.1              6.4
## 34           Alexanderfurt         1        0.1              6.5
## 35           Alexanderview         1        0.1              6.6
## 36           Alexandrafort         1        0.1              6.7
## 37              Alexisland         1        0.1              6.8
## 38              Aliciatown         1        0.1              6.9
## 39            Alvaradoport         1        0.1              7.0
## 40             Alvarezland         1        0.1              7.1
## 41              Amandafort         1        0.1              7.2
## 42             Amandahaven         1        0.1              7.3
## 43              Amandaland         1        0.1              7.4
## 44                 Amyfurt         1        0.1              7.5
## 45               Amyhaven         1        0.1              7.6
## 46         Andersonchester         1        0.1              7.7
## 47            Andersonfurt         1        0.1              7.8
```

```
## 48              Andersonton         1         0.1              7.9
## 49            Andrewborough         1         0.1              8.0
## 50              Andrewmouth         1         0.1              8.1
## 51               Angelhaven         1         0.1              8.2
## 52              Anthonyfurt         1         0.1              8.3
## 53            Ashleychester         1         0.1              8.4
## 54              Ashleymouth         1         0.1              8.5
## 55            Austinborough         1         0.1              8.6
## 56               Austinland         1         0.1              8.7
## 57               Bakerhaven         1         0.1              8.8
## 58              Barbershire         1         0.1              8.9
## 59                  Beckton         1         0.1              9.0
## 60              Bernardton          1         0.1              9.1
## 61                Bethburgh         1         0.1              9.2
## 62                Birdshire         1         0.1              9.3
## 63             Blairborough         1         0.1              9.4
## 64               Blairville         1         0.1              9.5
## 65              Blevinstown         1         0.1              9.6
## 66                Bowenview         1         0.1              9.7
## 67                Boyerberg         1         0.1              9.8
## 68           Bradleyborough         1         0.1              9.9
## 69             Bradleyburgh         1         0.1             10.0
## 70              Bradleyside         1         0.1             10.1
## 71          Bradshawborough         1         0.1             10.2
## 72                Bradyfurt         1         0.1             10.3
## 73               Brandiland         1         0.1             10.4
## 74              Brandonbury         1         0.1             10.5
## 75              Brandonstad         1         0.1             10.6
## 76              Brandymouth         1         0.1             10.7
## 77              Brendaburgh         1         0.1             10.8
## 78            Brendachester         1         0.1             10.9
## 79               Brianabury         1         0.1             11.0
## 80                Brianfurt         1         0.1             11.1
## 81                Brianland         1         0.1             11.2
## 82          Brittanyborough         1         0.1             11.3
## 83                Brownbury         1         0.1             11.4
## 84                Brownport         1         0.1             11.5
## 85                 Brownton         1         0.1             11.6
## 86                Browntown         1         0.1             11.7
## 87                Brownview         1         0.1             11.8
## 88               Bruceburgh         1         0.1             11.9
## 89              Burgessside         1         0.1             12.0
## 90              Butlerfort          1         0.1             12.1
## 91                Calebberg         1         0.1             12.2
## 92              Cameronberg         1         0.1             12.3
## 93            Campbellstad          1         0.1             12.4
## 94              Cannonbury          1         0.1             12.5
## 95              Carsonshire         1         0.1             12.6
## 96              Carterburgh         1         0.1             12.7
## 97               Carterland         1         0.1             12.8
## 98               Carterport         1         0.1             12.9
## 99                Carterton         1         0.1             13.0
## 100           Cassandratown         1         0.1             13.1
## 101           Catherinefort         1         0.1             13.2
```

```
## 102          Cervantesshire         1         0.1            13.3
## 103             Chapmanland         1         0.1            13.4
## 104            Chapmanmouth         1         0.1            13.5
## 105            Charlenetown         1         0.1            13.6
## 106             Charlesbury         1         0.1            13.7
## 107             Charlesport         1         0.1            13.8
## 108           Charlottefort         1         0.1            13.9
## 109              Chaseshire         1         0.1            14.0
## 110              Chrismouth         1         0.1            14.1
## 111         Christinehaven         1         0.1            14.2
## 112          Christinetown         1         0.1            14.3
## 113      Christopherchester         1         0.1            14.4
## 114         Christopherport         1         0.1            14.5
## 115        Christopherville         1         0.1            14.6
## 116            Clarkborough         1         0.1            14.7
## 117             Claytonside         1         0.1            14.8
## 118              Clineshire         1         0.1            14.9
## 119               Codyburgh         1         0.1            15.0
## 120              Coffeytown         1         0.1            15.1
## 121                Colebury         1         0.1            15.2
## 122            Colemanshire         1         0.1            15.3
## 123            Collinsburgh         1         0.1            15.4
## 124               Combsstad         1         0.1            15.5
## 125         Contrerasshire         1         0.1            15.6
## 126              Costaburgh         1         0.1            15.7
## 127            Courtneyfort         1         0.1            15.8
## 128                Coxhaven         1         0.1            15.9
## 129              Cranemouth         1         0.1            16.0
## 130            Crawfordfurt         1         0.1            16.1
## 131        Cunninghamhaven         1         0.1            16.2
## 132              Curtisport         1         0.1            16.3
## 133              Curtisview         1         0.1            16.4
## 134             Cynthiaside         1         0.1            16.5
## 135              Daisymouth         1         0.1            16.6
## 136              Danielview         1         0.1            16.7
## 137              Davidmouth         1         0.1            16.8
## 138               Davidside         1         0.1            16.9
## 139               Davidstad         1         0.1            17.0
## 140                Davidton         1         0.1            17.1
## 141               Davidview         1         0.1            17.2
## 142          Daviesborough         1         0.1            17.3
## 143            Davieshaven         1         0.1            17.4
## 144          Davilachester         1         0.1            17.5
## 145              Davisfurt         1         0.1            17.6
## 146                 Dayton         1         0.1            17.7
## 147            Deannaville         1         0.1            17.8
## 148              Debraburgh         1         0.1            17.9
## 149            Derrickhaven         1         0.1            18.0
## 150            Destinyfurt         1         0.1            18.1
## 151              Dianashire         1         0.1            18.2
## 152              Dianaville         1         0.1            18.3
## 153            Donaldshire         1         0.1            18.4
## 154            Douglasview         1         0.1            18.5
## 155              Duffystad         1         0.1            18.6
```

```
## 156           Dustinborough         1        0.1           18.7
## 157           Dustinchester         1        0.1           18.8
## 158             Dustinmouth         1        0.1           18.9
## 159              East Aaron         1        0.1           19.0
## 160            East Anthony         1        0.1           19.1
## 161            East Barbara         1        0.1           19.2
## 162      East Benjaminville         1        0.1           19.3
## 163        East Breannafurt         1        0.1           19.4
## 164           East Brettton         1        0.1           19.5
## 165          East Brianberg         1        0.1           19.6
## 166      East Brittanyville         1        0.1           19.7
## 167             East Carlos         1        0.1           19.8
## 168        East Christopher         1        0.1           19.9
## 169    East Christopherbury         1        0.1           20.0
## 170             East Connie         1        0.1           20.1
## 171              East Dana          1        0.1           20.2
## 172       East Deborahhaven         1        0.1           20.3
## 173       East Debraborough         1        0.1           20.4
## 174              East Donna         1        0.1           20.5
## 175          East Donnatown         1        0.1           20.6
## 176              East Eric          1        0.1           20.7
## 177           East Ericport         1        0.1           20.8
## 178         East Georgeside         1        0.1           20.9
## 179          East Graceland         1        0.1           21.0
## 180        East Heatherside         1        0.1           21.1
## 181              East Heidi         1        0.1           21.2
## 182              East Henry         1        0.1           21.3
## 183              East Jason         1        0.1           21.4
## 184            East Jennifer         1        0.1           21.5
## 185          East Jessefort          1        0.1           21.6
## 186           East Johnport          1        0.1           21.7
## 187          East Kevinbury         1        0.1           21.8
## 188             East Lindsey        1        0.1           21.9
## 189             East Maureen        1        0.1           22.0
## 190        East Michaelland         1        0.1           22.1
## 191       East Michaelmouth         1        0.1           22.2
## 192        East Michaeltown         1        0.1           22.3
## 193             East Michele        1        0.1           22.4
## 194       East Michelleberg         1        0.1           22.5
## 195              East Mike          1        0.1           22.6
## 196              East Paul          1        0.1           22.7
## 197        East Rachaelfurt         1        0.1           22.8
## 198         East Rachelview         1        0.1           22.9
## 199             East Ronald         1        0.1           23.0
## 200     East Samanthashire          1        0.1           23.1
## 201            East Sharon          1        0.1           23.2
## 202             East Shawn          1        0.1           23.3
## 203       East Shawnchester         1        0.1           23.4
## 204         East Sheriville         1        0.1           23.5
## 205            East Stephen         1        0.1           23.6
## 206          East Susanland         1        0.1           23.7
## 207             East Tammie         1        0.1           23.8
## 208       East Theresashire         1        0.1           23.9
## 209        East Tiffanyport         1        0.1           24.0
```

```
## 210        East Timothyport         1        0.1           24.1
## 211           East Toddfort         1        0.1           24.2
## 212          East Troyhaven         1        0.1           24.3
## 213         East Tylershire         1        0.1           24.4
## 214            East Valerie         1        0.1           24.5
## 215       East Vincentstad         1        0.1           24.6
## 216     East Yvonnechester         1        0.1           24.7
## 217            Edwardmouth         1        0.1           24.8
## 218           Edwardsmouth         1        0.1           24.9
## 219            Edwardsport         1        0.1           25.0
## 220          Elizabethbury         1        0.1           25.1
## 221         Elizabethmouth         1        0.1           25.2
## 222          Elizabethport         1        0.1           25.3
## 223          Elizabethstad         1        0.1           25.4
## 224              Emilyfurt         1        0.1           25.5
## 225          Ericksonmouth         1        0.1           25.6
## 226              Erikville         1        0.1           25.7
## 227              Erinmouth         1        0.1           25.8
## 228                Erinton         1        0.1           25.9
## 229              Estesfurt         1        0.1           26.0
## 230            Estradafurt         1        0.1           26.1
## 231           Estradashire         1        0.1           26.2
## 232              Evansfurt         1        0.1           26.3
## 233            Evansville         1        0.1           26.4
## 234              Faithview         1        0.1           26.5
## 235            Florestown         1        0.1           26.6
## 236            Fosterside         1        0.1           26.7
## 237              Frankbury         1        0.1           26.8
## 238           Frankchester         1        0.1           26.9
## 239              Frankport         1        0.1           27.0
## 240           Fraziershire         1        0.1           27.1
## 241            Garciamouth         1        0.1           27.2
## 242              Garciaside         1        0.1           27.3
## 243              Garciatown         1        0.1           27.4
## 244              Garciaview         1        0.1           27.5
## 245              Garnerberg         1        0.1           27.6
## 246         Garrettborough         1        0.1           27.7
## 247            Garychester         1        0.1           27.8
## 248           Gilbertville         1        0.1           27.9
## 249              Gomezport         1        0.1           28.0
## 250          Gonzalezburgh         1        0.1           28.1
## 251             Grahamberg         1        0.1           28.2
## 252             Gravesport         1        0.1           28.3
## 253          Greenechester         1        0.1           28.4
## 254              Greentown         1        0.1           28.5
## 255              Greerport         1        0.1           28.6
## 256               Greerton         1        0.1           28.7
## 257              Greghaven         1        0.1           28.8
## 258             Guzmanland         1        0.1           28.9
## 259                Haleberg         1        0.1           29.0
## 260                Haleview         1        0.1           29.1
## 261                Hallfort         1        0.1           29.2
## 262           Hamiltonfort         1        0.1           29.3
## 263            Hammondport         1        0.1           29.4
```

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## 264              Hannahside         1         0.1            29.5
## 265               Hannaport         1         0.1            29.6
## 266              Hansenland         1         0.1            29.7
## 267             Hansenmouth         1         0.1            29.8
## 268             Harmonhaven         1         0.1            29.9
## 269           Harperborough         1         0.1            30.0
## 270             Harrishaven         1         0.1            30.1
## 271           Harrisonmouth         1         0.1            30.2
## 272         Hartmanchester          1         0.1            30.3
## 273                Hartport         1         0.1            30.4
## 274             Harveyport         1         0.1            30.5
## 275          Hatfieldshire         1         0.1            30.6
## 276            Hawkinsbury         1         0.1            30.7
## 277             Hayesmouth         1         0.1            30.8
## 278            Heatherberg         1         0.1            30.9
## 279           Helenborough         1         0.1            31.0
## 280          Hendrixmouth         1         0.1            31.1
## 281             Henryfort         1         0.1            31.2
## 282             Henryland         1         0.1            31.3
## 283       Hernandezchester         1         0.1            31.4
## 284          Hernandezfort         1         0.1            31.5
## 285          Hernandezside         1         0.1            31.6
## 286         Hernandezville         1         0.1            31.7
## 287               Hessstad         1         0.1            31.8
## 288             Hintonport         1         0.1            31.9
## 289              Hobbsbury         1         0.1            32.0
## 290            Holderville         1         0.1            32.1
## 291            Hollandberg         1         0.1            32.2
## 292              Hollyfurt         1         0.1            32.3
## 293           Hubbardmouth         1         0.1            32.4
## 294         Huffmanchester         1         0.1            32.5
## 295             Hughesport         1         0.1            32.6
## 296          Hurleyborough         1         0.1            32.7
## 297                Ianmouth         1         0.1            32.8
## 298             Ingramberg         1         0.1            32.9
## 299           Isaacborough         1         0.1            33.0
## 300           Jacksonburgh         1         0.1            33.1
## 301           Jacksonmouth         1         0.1            33.2
## 302            Jacksonstad         1         0.1            33.3
## 303              Jacobstad         1         0.1            33.4
## 304       Jacquelineshire          1         0.1            33.5
## 305              Jamesberg         1         0.1            33.6
## 306              Jamesfurt         1         0.1            33.7
## 307             Jamesmouth         1         0.1            33.8
## 308             Jamesville         1         0.1            33.9
## 309              Jamieberg         1         0.1            34.0
## 310              Jamiefort         1         0.1            34.1
## 311             Janiceview         1         0.1            34.2
## 312           Jasminefort          1         0.1            34.3
## 313                Jayville         1         0.1            34.4
## 314           Jeffreyburgh         1         0.1            34.5
## 315           Jeffreymouth         1         0.1            34.6
## 316           Jeffreyshire         1         0.1            34.7
## 317          Jenniferhaven         1         0.1            34.8
```

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## 318          Jenniferstad         1         0.1           34.9
## 319         Jensenborough         1         0.1           35.0
## 320             Jensenton         1         0.1           35.1
## 321           Jeremybury          1         0.1           35.2
## 322           Jeremyshire         1         0.1           35.3
## 323          Jessicahaven         1         0.1           35.4
## 324          Jessicashire         1         0.1           35.5
## 325           Jessicastad         1         0.1           35.6
## 326             Joanntown         1         0.1           35.7
## 327           Joechester          1         0.1           35.8
## 328              Johnport         1         0.1           35.9
## 329           Johnsonfort         1         0.1           36.0
## 330          Johnsontown          1         0.1           36.1
## 331          Johnsonview          1         0.1           36.2
## 332            Johnsport          1         0.1           36.3
## 333         Johnstonmouth         1         0.1           36.4
## 334         Johnstonshire         1         0.1           36.5
## 335          Jonathanland         1         0.1           36.6
## 336          Jonathantown         1         0.1           36.7
## 337             Jonesland         1         0.1           36.8
## 338           Jonesmouth          1         0.1           36.9
## 339           Jonesshire          1         0.1           37.0
## 340          Jordanmouth          1         0.1           37.1
## 341          Jordanshire          1         0.1           37.2
## 342           Jordantown          1         0.1           37.3
## 343           Josephberg          1         0.1           37.4
## 344          Josephmouth          1         0.1           37.5
## 345           Josephstad          1         0.1           37.6
## 346          Joshuaburgh          1         0.1           37.7
## 347          Joshuamouth          1         0.1           37.8
## 348             Juanport          1         0.1           37.9
## 349           Juliaport          1         0.1           38.0
## 350           Julietown          1         0.1           38.1
## 351          Karenmouth          1         0.1           38.2
## 352            Karenton          1         0.1           38.3
## 353           Katieport          1         0.1           38.4
## 354          Kaylashire          1         0.1           38.5
## 355           Keithtown          1         0.1           38.6
## 356           Kellytown          1         0.1           38.7
## 357         Kennedyfurt          1         0.1           38.8
## 358         Kennethview          1         0.1           38.9
## 359           Kentmouth          1         0.1           39.0
## 360           Kevinberg          1         0.1           39.1
## 361         Kevinchester         1         0.1           39.2
## 362        Kimberlyhaven         1         0.1           39.3
## 363        Kimberlymouth         1         0.1           39.4
## 364         Kimberlytown         1         0.1           39.5
## 365         Kingchester          1         0.1           39.6
## 366           Kingshire          1         0.1           39.7
## 367           Klineside          1         0.1           39.8
## 368          Knappburgh          1         0.1           39.9
## 369         Kristineberg         1         0.1           40.0
## 370          Kristinfurt         1         0.1           40.1
## 371          Kristintown         1         0.1           40.2
```

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## 372             Kyleborough         1        0.1           40.3
## 373               Kylieview         1        0.1           40.4
## 374             Lake Adrian         1        0.1           40.5
## 375         Lake Allenville         1        0.1           40.6
## 376             Lake Amanda         1        0.1           40.7
## 377                Lake Amy         1        0.1           40.8
## 378             Lake Angela         1        0.1           40.9
## 379          Lake Annashire         1        0.1           41.0
## 380         Lake Beckyburgh         1        0.1           41.1
## 381        Lake Brandonview         1        0.1           41.2
## 382              Lake Brian         1        0.1           41.3
## 383      Lake Cassandraport         1        0.1           41.4
## 384      Lake Charlottestad         1        0.1           41.5
## 385    Lake Christopherfurt         1        0.1           41.6
## 386       Lake Conniefurt         1        0.1           41.7
## 387          Lake Courtney         1        0.1           41.8
## 388         Lake Craigview         1        0.1           41.9
## 389            Lake Cynthia         1        0.1           42.0
## 390          Lake Danielle         1        0.1           42.1
## 391      Lake Deannaborough         1        0.1           42.2
## 392       Lake Deborahburgh         1        0.1           42.3
## 393             Lake Dustin         1        0.1           42.4
## 394             Lake Edward         1        0.1           42.5
## 395      Lake Elizabethside         1        0.1           42.6
## 396           Lake Evantown         1        0.1           42.7
## 397              Lake Faith         1        0.1           42.8
## 398             Lake Gerald         1        0.1           42.9
## 399             Lake Hailey         1        0.1           43.0
## 400                Lake Ian         1        0.1           43.1
## 401              Lake Jacob         1        0.1           43.2
## 402         Lake Jacqueline         1        0.1           43.3
## 403       Lake Jasonchester         1        0.1           43.4
## 404           Lake Jennifer         1        0.1           43.5
## 405        Lake Jenniferton         1        0.1           43.6
## 406            Lake Jessica         1        0.1           43.7
## 407       Lake Jessicaville         1        0.1           43.8
## 408              Lake Jesus         1        0.1           43.9
## 409          Lake Jillville         1        0.1           44.0
## 410               Lake John         1        0.1           44.1
## 411           Lake Johnbury         1        0.1           44.2
## 412       Lake Jonathanview         1        0.1           44.3
## 413             Lake Joseph         1        0.1           44.4
## 414           Lake Josetown         1        0.1           44.5
## 415         Lake Joshuafurt         1        0.1           44.6
## 416              Lake Kevin         1        0.1           44.7
## 417          Lake Kurtmouth         1        0.1           44.8
## 418               Lake Lisa         1        0.1           44.9
## 419            Lake Matthew         1        0.1           45.0
## 420        Lake Matthewland         1        0.1           45.1
## 421       Lake Melindamouth         1        0.1           45.2
## 422            Lake Michael         1        0.1           45.3
## 423        Lake Michaelport         1        0.1           45.4
## 424           Lake Michelle         1        0.1           45.5
## 425       Lake Michellebury         1        0.1           45.6
```

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## 426             Lake Nicole         1        0.1           45.7
## 427        Lake Rhondaburgh         1        0.1           45.8
## 428     Lake Stephenborough         1        0.1           45.9
## 429            Lake Timothy         1        0.1           46.0
## 430              Lake Tracy         1        0.1           46.1
## 431            Lake Vanessa         1        0.1           46.2
## 432        Lake Zacharyfurt         1        0.1           46.3
## 433              Lauraburgh         1        0.1           46.4
## 434              Laurieside         1        0.1           46.5
## 435         Lawrenceborough         1        0.1           46.6
## 436             Lawsonshire         1        0.1           46.7
## 437                Leahside         1        0.1           46.8
## 438             Leonchester         1        0.1           46.9
## 439              Lesliebury         1        0.1           47.0
## 440              Lesliefort         1        0.1           47.1
## 441              Lewismouth         1        0.1           47.2
## 442               Lindaside         1        0.1           47.3
## 443            Lindsaymouth         1        0.1           47.4
## 444                Lisaberg         1        0.1           47.5
## 445                Lisafort         1        0.1           47.6
## 446              Lopezberg          1        0.1           47.7
## 447             Lopezmouth          1        0.1           47.8
## 448              Loriville          1        0.1           47.9
## 449              Lovemouth          1        0.1           48.0
## 450             Luischester         1        0.1           48.1
## 451                Luisfurt         1        0.1           48.2
## 452                Lukeport         1        0.1           48.3
## 453          Mackenziemouth         1        0.1           48.4
## 454             Marcushaven         1        0.1           48.5
## 455              Mariahview         1        0.1           48.6
## 456               Mariebury         1        0.1           48.7
## 457              Mariemouth         1        0.1           48.8
## 458               Markhaven         1        0.1           48.9
## 459              Masonhaven         1        0.1           49.0
## 460             Masseyshire         1        0.1           49.1
## 461                Mataberg         1        0.1           49.2
## 462             Matthewtown         1        0.1           49.3
## 463             Mauricefurt         1        0.1           49.4
## 464            Mauriceshire         1        0.1           49.5
## 465            Mcdonaldfort         1        0.1           49.6
## 466          Mclaughlinbury         1        0.1           49.7
## 467              Meaganfort         1        0.1           49.8
## 468           Meghanchester         1        0.1           49.9
## 469              Melanieton         1        0.1           50.0
## 470          Melissachester         1        0.1           50.1
## 471             Melissafurt         1        0.1           50.2
## 472             Melissastad         1        0.1           50.3
## 473            Meyerchester         1        0.1           50.4
## 474              Meyersstad         1        0.1           50.5
## 475                  Mezaton         1        0.1           50.6
## 476             Michaelland         1        0.1           50.7
## 477            Michaelmouth         1        0.1           50.8
## 478            Michaelshire         1        0.1           50.9
## 479             Micheletown         1        0.1           51.0
```

```
## 480           Michellefort         1        0.1           51.1
## 481          Millerchester         1        0.1           51.2
## 482             Millerfort         1        0.1           51.3
## 483             Millerland         1        0.1           51.4
## 484             Millerside         1        0.1           51.5
## 485             Millerview         1        0.1           51.6
## 486              Mollyport         1        0.1           51.7
## 487             Monicaview         1        0.1           51.8
## 488             Morganfort         1        0.1           51.9
## 489             Morganport         1        0.1           52.0
## 490           Morrismouth         1        0.1           52.1
## 491           Mosleyburgh         1        0.1           52.2
## 492             Mullenside         1        0.1           52.3
## 493              Munozberg         1        0.1           52.4
## 494           Murphymouth         1        0.1           52.5
## 495             Nelsonfurt         1        0.1           52.6
## 496             New Amanda         1        0.1           52.7
## 497          New Angelview         1        0.1           52.8
## 498             New Brandy         1        0.1           52.9
## 499         New Brendafurt         1        0.1           53.0
## 500     New Charleschester         1        0.1           53.1
## 501      New Christinatown         1        0.1           53.2
## 502            New Cynthia         1        0.1           53.3
## 503       New Daniellefort         1        0.1           53.4
## 504            New Darlene         1        0.1           53.5
## 505           New Dawnland         1        0.1           53.6
## 506         New Debbiestad         1        0.1           53.7
## 507         New Denisebury         1        0.1           53.8
## 508         New Frankshire         1        0.1           53.9
## 509            New Gabriel         1        0.1           54.0
## 510              New Henry         1        0.1           54.1
## 511          New Hollyberg         1        0.1           54.2
## 512              New James         1        0.1           54.3
## 513          New Jamestown         1        0.1           54.4
## 514            New Jasmine         1        0.1           54.5
## 515                New Jay         1        0.1           54.6
## 516     New Jeffreychester         1        0.1           54.7
## 517           New Johnberg         1        0.1           54.8
## 518         New Joshuaport         1        0.1           54.9
## 519                New Juan         1        0.1           55.0
## 520         New Julianberg         1        0.1           55.1
## 521              New Julie         1        0.1           55.2
## 522          New Karenberg         1        0.1           55.3
## 523              New Kayla         1        0.1           55.4
## 524         New Keithburgh         1        0.1           55.5
## 525          New Lindaberg         1        0.1           55.6
## 526         New Lucasburgh         1        0.1           55.7
## 527         New Marcusbury         1        0.1           55.8
## 528              New Maria         1        0.1           55.9
## 529            New Matthew         1        0.1           56.0
## 530            New Michael         1        0.1           56.1
## 531       New Michaeltown          1        0.1           56.2
## 532              New Nancy         1        0.1           56.3
## 533             New Nathan         1        0.1           56.4
```

```
## 534       New Patriciashire         1        0.1           56.5
## 535             New Patrick         1        0.1           56.6
## 536                New Paul         1        0.1           56.7
## 537              New Rachel         1        0.1           56.8
## 538             New Rebecca         1        0.1           56.9
## 539             New Sabrina         1        0.1           57.0
## 540                New Sean         1        0.1           57.1
## 541              New Shane          1        0.1           57.2
## 542              New Sharon         1        0.1           57.3
## 543          New Sonialand          1        0.1           57.4
## 544              New Steve          1        0.1           57.5
## 545              New Tammy          1        0.1           57.6
## 546         New Taylorburgh         1        0.1           57.7
## 547              New Teresa         1        0.1           57.8
## 548             New Theresa         1        0.1           57.9
## 549              New Thomas         1        0.1           58.0
## 550             New Timothy         1        0.1           58.1
## 551                New Tina         1        0.1           58.2
## 552           New Tinamouth         1        0.1           58.3
## 553         New Traceystad          1        0.1           58.4
## 554              New Travis         1        0.1           58.5
## 555          New Travistown         1        0.1           58.6
## 556              New Tyler          1        0.1           58.7
## 557              New Wanda          1        0.1           58.8
## 558        New Williammouth         1        0.1           58.9
## 559        New Williamville         1        0.1           59.0
## 560              Newmanberg         1        0.1           59.1
## 561            Nicholasland         1        0.1           59.2
## 562            Nicholasport         1        0.1           59.3
## 563        North Aaronburgh         1        0.1           59.4
## 564      North Aaronchester         1        0.1           59.5
## 565         North Alexandra         1        0.1           59.6
## 566           North Anaport         1        0.1           59.7
## 567            North Andrew         1        0.1           59.8
## 568        North Andrewstad         1        0.1           59.9
## 569        North Angelastad         1        0.1           60.0
## 570        North Angelatown         1        0.1           60.1
## 571              North Anna         1        0.1           60.2
## 572             North April         1        0.1           60.3
## 573           North Brandon         1        0.1           60.4
## 574     North Brittanyburgh         1        0.1           60.5
## 575            North Cassie         1        0.1           60.6
## 576       North Charlesbury         1        0.1           60.7
## 577       North Christopher         1        0.1           60.8
## 578             North Debra         1        0.1           60.9
## 579        North Debrashire         1        0.1           61.0
## 580        North Derekville         1        0.1           61.1
## 581           North Destiny         1        0.1           61.2
## 582         North Elizabeth         1        0.1           61.3
## 583         North Frankstad         1        0.1           61.4
## 584         North Garyhaven         1        0.1           61.5
## 585     North Isabellaville         1        0.1           61.6
## 586     North Jenniferburgh         1        0.1           61.7
## 587        North Jeremyport         1        0.1           61.8
```

```
## 588      North Jessicaville         1        0.1           61.9
## 589          North Johnside         1        0.1           62.0
## 590          North Johntown         1        0.1           62.1
## 591          North Jonathan         1        0.1           62.2
## 592            North Joshua         1        0.1           62.3
## 593             North Katie         1        0.1           62.4
## 594       North Kennethside         1        0.1           62.5
## 595         North Kevinside         1        0.1           62.6
## 596          North Kimberly         1        0.1           62.7
## 597          North Kristine         1        0.1           62.8
## 598         North Lauraland         1        0.1           62.9
## 599        North Laurenview         1        0.1           63.0
## 600         North Leonmouth         1        0.1           63.1
## 601       North Lisachester         1        0.1           63.2
## 602         North Loriburgh         1        0.1           63.3
## 603              North Mark         1        0.1           63.4
## 604          North Maryland         1        0.1           63.5
## 605          North Mercedes         1        0.1           63.6
## 606           North Michael         1        0.1           63.7
## 607       North Monicaville         1        0.1           63.8
## 608             North Randy         1        0.1           63.9
## 609           North Raymond         1        0.1           64.0
## 610            North Regina         1        0.1           64.1
## 611       North Ricardotown         1        0.1           64.2
## 612      North Richardburgh         1        0.1           64.3
## 613       North Ronaldshire         1        0.1           64.4
## 614    North Russellborough         1        0.1           64.5
## 615         North Samantha         1        0.1           64.6
## 616        North Sarashire         1        0.1           64.7
## 617          North Shannon         1        0.1           64.8
## 618     North Stephanieberg         1        0.1           64.9
## 619              North Tara         1        0.1           65.0
## 620           North Tiffany         1        0.1           65.1
## 621         North Tracyport         1        0.1           65.2
## 622         North Tylerland         1        0.1           65.3
## 623          North Virginia         1        0.1           65.4
## 624     North Wesleychester         1        0.1           65.5
## 625               Novaktown         1        0.1           65.6
## 626               Odomville         1        0.1           65.7
## 627               Olsonside         1        0.1           65.8
## 628               Olsonstad         1        0.1           65.9
## 629              Palmerside         1        0.1           66.0
## 630             Parkerhaven         1        0.1           66.1
## 631           Patriciahaven         1        0.1           66.2
## 632            Patrickmouth         1        0.1           66.3
## 633              Pattymouth         1        0.1           66.4
## 634              Paulhaven          1        0.1           66.5
## 635               Paulport          1        0.1           66.6
## 636              Paulshire          1        0.1           66.7
## 637             Pearsonfort         1        0.1           66.8
## 638                Penatown         1        0.1           66.9
## 639              Perezland          1        0.1           67.0
## 640              Perryburgh         1        0.1           67.1
## 641            Petersonfurt         1        0.1           67.2
```

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## 642           Phelpschester         1        0.1           67.3
## 643              Philipberg         1        0.1           67.4
## 644            Phillipsbury         1        0.1           67.5
## 645         Port Aliciabury         1        0.1           67.6
## 646        Port Angelamouth         1        0.1           67.7
## 647            Port Anthony         1        0.1           67.8
## 648         Port Aprilville         1        0.1           67.9
## 649               Port Beth         1        0.1           68.0
## 650              Port Blake         1        0.1           68.1
## 651             Port Brenda         1        0.1           68.2
## 652              Port Brian         1        0.1           68.3
## 653          Port Brianfort         1        0.1           68.4
## 654      Port Brittanyville         1        0.1           68.5
## 655         Port Brookeland         1        0.1           68.6
## 656         Port Calvintown         1        0.1           68.7
## 657             Port Cassie         1        0.1           68.8
## 658         Port Chasemouth         1        0.1           68.9
## 659          Port Christina         1        0.1           69.0
## 660     Port Christinemouth         1        0.1           69.1
## 661        Port Christopher         1        0.1           69.2
## 662 Port Christopherborough         1        0.1           69.3
## 663            Port Crystal         1        0.1           69.4
## 664             Port Daniel         1        0.1           69.5
## 665       Port Danielleberg         1        0.1           69.6
## 666          Port Davidland         1        0.1           69.7
## 667             Port Dennis         1        0.1           69.8
## 668          Port Derekberg         1        0.1           69.9
## 669            Port Destiny         1        0.1           70.0
## 670     Port Douglasborough         1        0.1           70.1
## 671             Port Elijah         1        0.1           70.2
## 672               Port Eric         1        0.1           70.3
## 673          Port Erikhaven         1        0.1           70.4
## 674           Port Erinberg         1        0.1           70.5
## 675         Port Eugeneport         1        0.1           70.6
## 676         Port Georgebury         1        0.1           70.7
## 677            Port Gregory         1        0.1           70.8
## 678         Port Jacqueline         1        0.1           70.9
## 679     Port Jacquelinestad         1        0.1           71.0
## 680              Port James         1        0.1           71.1
## 681            Port Jasmine         1        0.1           71.2
## 682        Port Jefferybury         1        0.1           71.3
## 683            Port Jeffrey         1        0.1           71.4
## 684           Port Jennifer         1        0.1           71.5
## 685            Port Jessica         1        0.1           71.6
## 686       Port Jessicamouth         1        0.1           71.7
## 687               Port Jodi         1        0.1           71.8
## 688         Port Joshuafort         1        0.1           71.9
## 689          Port Karenfurt         1        0.1           72.0
## 690        Port Katelynview         1        0.1           72.1
## 691       Port Kathleenfort         1        0.1           72.2
## 692       Port Kevinborough         1        0.1           72.3
## 693           Port Lawrence         1        0.1           72.4
## 694              Port Maria         1        0.1           72.5
## 695             Port Mathew         1        0.1           72.6
```

```
## 696        Port Melissaberg         1        0.1           72.7
## 697        Port Melissastad         1        0.1           72.8
## 698       Port Michaelmouth         1        0.1           72.9
## 699       Port Michealburgh         1        0.1           73.0
## 700           Port Mitchell         1        0.1           73.1
## 701         Port Patrickton         1        0.1           73.2
## 702           Port Paultown         1        0.1           73.3
## 703             Port Rachel         1        0.1           73.4
## 704       Port Raymondfort          1        0.1           73.5
## 705              Port Robin         1        0.1           73.6
## 706         Port Sarahhaven         1        0.1           73.7
## 707         Port Sarahshire         1        0.1           73.8
## 708         Port Sherrystad         1        0.1           73.9
## 709             Port Stacey         1        0.1           74.0
## 710              Port Stacy         1        0.1           74.1
## 711              Port Susan         1        0.1           74.2
## 712       Port Whitneyhaven         1        0.1           74.3
## 713             Portermouth         1        0.1           74.4
## 714             Pottermouth         1        0.1           74.5
## 715              Princebury         1        0.1           74.6
## 716             Pruittmouth         1        0.1           74.7
## 717             Rachelhaven         1        0.1           74.8
## 718            Ramirezhaven         1        0.1           74.9
## 719             Ramirezland         1        0.1           75.0
## 720             Ramirezside         1        0.1           75.1
## 721              Ramirezton         1        0.1           75.2
## 722               Ramosstad         1        0.1           75.3
## 723            Randolphport         1        0.1           75.4
## 724              Randyshire         1        0.1           75.5
## 725            Rebeccamouth         1        0.1           75.6
## 726             Reginamouth         1        0.1           75.7
## 727            Reneechester         1        0.1           75.8
## 728               Reyesfurt         1        0.1           75.9
## 729               Reyesland         1        0.1           76.0
## 730           Rhondaborough         1        0.1           76.1
## 731            Richardshire         1        0.1           76.2
## 732            Richardsland         1        0.1           76.3
## 733          Richardsonland         1        0.1           76.4
## 734         Richardsonmouth         1        0.1           76.5
## 735         Richardsonshire         1        0.1           76.6
## 736          Richardsontown         1        0.1           76.7
## 737              Rickymouth         1        0.1           76.8
## 738               Riggsstad         1        0.1           76.9
## 739               Rivasland         1        0.1           77.0
## 740              Robertbury         1        0.1           77.1
## 741             Robertmouth         1        0.1           77.2
## 742              Robertside         1        0.1           77.3
## 743          Robertsonburgh         1        0.1           77.4
## 744             Robertstown         1        0.1           77.5
## 745              Roberttown         1        0.1           77.6
## 746            Robinsonland         1        0.1           77.7
## 747            Robinsontown         1        0.1           77.8
## 748               Rochabury         1        0.1           77.9
## 749              Rogerburgh         1        0.1           78.0
```

```
## 750              Rogerland         1         0.1            78.1
## 751             Ronaldport         1         0.1            78.2
## 752            Ronniemouth         1         0.1            78.3
## 753           Russellville         1         0.1            78.4
## 754              Ryanhaven         1         0.1            78.5
## 755            Sabrinaview         1         0.1            78.6
## 756            Salazarbury         1         0.1            78.7
## 757           Samanthaland         1         0.1            78.8
## 758          Samuelborough         1         0.1            78.9
## 759            Sanchezland         1         0.1            79.0
## 760           Sanchezmouth         1         0.1            79.1
## 761            Sandersland         1         0.1            79.2
## 762            Sanderstown         1         0.1            79.3
## 763             Sandraland         1         0.1            79.4
## 764            Sandrashire         1         0.1            79.5
## 765            Sandraville         1         0.1            79.6
## 766               Sarafurt         1         0.1            79.7
## 767             Sarahland         1         0.1            79.8
## 768              Sarahton         1         0.1            79.9
## 769            Sellerstown         1         0.1            80.0
## 770              Shaneland         1         0.1            80.1
## 771              Sharpberg         1         0.1            80.2
## 772              Shawnside         1         0.1            80.3
## 773               Shawstad         1         0.1            80.4
## 774            Sherrishire         1         0.1            80.5
## 775            Shirleyfort         1         0.1            80.6
## 776               Silvaton         1         0.1            80.7
## 777             Smithburgh         1         0.1            80.8
## 778              Smithside         1         0.1            80.9
## 779              Smithtown         1         0.1            81.0
## 780            South Aaron         1         0.1            81.1
## 781             South Adam         1         0.1            81.2
## 782        South Adamhaven         1         0.1            81.3
## 783    South Alexisborough         1         0.1            81.4
## 784        South Blakestad         1         0.1            81.5
## 785             South Brian         1         0.1            81.6
## 786        South Cathyfurt         1         0.1            81.7
## 787     South Christopher          1         0.1            81.8
## 788            South Corey         1         0.1            81.9
## 789     South Cynthiashire         1         0.1            82.0
## 790           South Daniel         1         0.1            82.1
## 791     South Daniellefort         1         0.1            82.2
## 792       South Davidhaven         1         0.1            82.3
## 793       South Davidmouth         1         0.1            82.4
## 794            South Denise         1         0.1            82.5
## 795       South Denisefurt         1         0.1            82.6
## 796       South Dianeshire         1         0.1            82.7
## 797            South George         1         0.1            82.8
## 798             South Henry         1         0.1            82.9
## 799       South Jackieberg         1         0.1            83.0
## 800             South Jade         1         0.1            83.1
## 801        South Jaimeview         1         0.1            83.2
## 802      South Jasminebury         1         0.1            83.3
## 803       South Jeanneport         1         0.1            83.4
```

```
## 804          South Jennifer         1        0.1           83.5
## 805           South Jessica         1        0.1           83.6
## 806              South John         1        0.1           83.7
## 807       South Johnnymouth         1        0.1           83.8
## 808              South Kyle         1        0.1           83.9
## 809          South Lauraton         1        0.1           84.0
## 810         South Lauratown         1        0.1           84.1
## 811            South Manuel         1        0.1           84.2
## 812          South Margaret         1        0.1           84.3
## 813              South Mark         1        0.1           84.4
## 814            South Meghan         1        0.1           84.5
## 815     South Meredithmouth         1        0.1           84.6
## 816            South Pamela         1        0.1           84.7
## 817       South Patrickfort         1        0.1           84.8
## 818             South Peter         1        0.1           84.9
## 819           South Rebecca         1        0.1           85.0
## 820             South Renee         1        0.1           85.1
## 821            South Robert         1        0.1           85.2
## 822            South Ronald         1        0.1           85.3
## 823     South Stephanieport         1        0.1           85.4
## 824        South Tiffanyton         1        0.1           85.5
## 825           South Tomside         1        0.1           85.6
## 826              South Troy         1        0.1           85.7
## 827    South Vincentchester         1        0.1           85.8
## 828            South Walter         1        0.1           85.9
## 829              Staceyfort         1        0.1           86.0
## 830          Stephenborough         1        0.1           86.1
## 831             Stewartbury         1        0.1           86.2
## 832             Suzannetown         1        0.1           86.3
## 833              Sylviaview         1        0.1           86.4
## 834              Tammymouth         1        0.1           86.5
## 835              Tammyshire         1        0.1           86.6
## 836              Taylorberg         1        0.1           86.7
## 837             Taylorhaven         1        0.1           86.8
## 838             Taylormouth         1        0.1           86.9
## 839              Taylorport         1        0.1           87.0
## 840             Teresahaven         1        0.1           87.1
## 841              Thomasstad         1        0.1           87.2
## 842              Thomasview         1        0.1           87.3
## 843             Timothyfurt         1        0.1           87.4
## 844            Timothymouth         1        0.1           87.5
## 845             Timothyport         1        0.1           87.6
## 846             Timothytown         1        0.1           87.7
## 847             Tinachester         1        0.1           87.8
## 848                  Tinaton         1        0.1           87.9
## 849           Townsendfurt         1        0.1           88.0
## 850             Tracyhaven         1        0.1           88.1
## 851                Tranland         1        0.1           88.2
## 852              Troyville         1        0.1           88.3
## 853          Turnerchester         1        0.1           88.4
## 854             Turnerview         1        0.1           88.5
## 855            Turnerville         1        0.1           88.6
## 856              Tylerport         1        0.1           88.7
## 857            Valerieland         1        0.1           88.8
```

```
## 858            Vanessastad        1        0.1           88.9
## 859            Vanessaview        1        0.1           89.0
## 860         Villanuevastad        1        0.1           89.1
## 861          Villanuevaton        1        0.1           89.2
## 862              Wademouth        1        0.1           89.3
## 863               Wadestad        1        0.1           89.4
## 864          Wagnerchester        1        0.1           89.5
## 865         Wallacechester        1        0.1           89.6
## 866             Walshhaven        1        0.1           89.7
## 867             Waltertown        1        0.1           89.8
## 868             Watsonfort        1        0.1           89.9
## 869             Welchshire        1        0.1           90.0
## 870               Wendyton        1        0.1           90.1
## 871             Wendyville        1        0.1           90.2
## 872             West Alice        1        0.1           90.3
## 873            West Alyssa        1        0.1           90.4
## 874            West Andrew        1        0.1           90.5
## 875            West Angela        1        0.1           90.6
## 876        West Angelabury        1        0.1           90.7
## 877          West Annefort        1        0.1           90.8
## 878         West Aprilport        1        0.1           90.9
## 879         West Arielstad        1        0.1           91.0
## 880           West Barbara        1        0.1           91.1
## 881         West Benjamin        1        0.1           91.2
## 882              West Brad        1        0.1           91.3
## 883        West Brandonton        1        0.1           91.4
## 884             West Brenda        1        0.1           91.5
## 885        West Carmenfurt        1        0.1           91.6
## 886             West Casey        1        0.1           91.7
## 887      West Chloeborough        1        0.1           91.8
## 888       West Christopher        1        0.1           91.9
## 889             West Colin        1        0.1           92.0
## 890            West Connor        1        0.1           92.1
## 891          West Courtney        1        0.1           92.2
## 892       West Daleborough        1        0.1           92.3
## 893         West Dannyberg        1        0.1           92.4
## 894             West David        1        0.1           92.5
## 895            West Dennis        1        0.1           92.6
## 896        West Derekmouth        1        0.1           92.7
## 897         West Dylanberg        1        0.1           92.8
## 898       West Eduardotown        1        0.1           92.9
## 899         West Ericaport        1        0.1           93.0
## 900          West Ericfurt        1        0.1           93.1
## 901    West Gabriellamouth        1        0.1           93.2
## 902         West Gregburgh        1        0.1           93.3
## 903           West Guybury        1        0.1           93.4
## 904             West James        1        0.1           93.5
## 905              West Jane        1        0.1           93.6
## 906        West Jeremyside        1        0.1           93.7
## 907      West Jessicahaven        1        0.1           93.8
## 908              West Jodi        1        0.1           93.9
## 909            West Joseph        1        0.1           94.0
## 910             West Julia        1        0.1           94.1
## 911            West Justin        1        0.1           94.2
```

```
## 912          West Katiefurt         1        0.1           94.3
## 913          West Kevinfurt         1        0.1           94.4
## 914              West Lacey         1        0.1           94.5
## 915            West Leahton         1        0.1           94.6
## 916        West Lindseybury         1        0.1           94.7
## 917               West Lisa         1        0.1           94.8
## 918             West Lucas         1        0.1           94.9
## 919          West Mariafort         1        0.1           95.0
## 920        West Melaniefurt         1        0.1           95.1
## 921       West Melissashire         1        0.1           95.2
## 922       West Michaelhaven         1        0.1           95.3
## 923        West Michaelport         1        0.1           95.4
## 924       West Michaelshire         1        0.1           95.5
## 925        West Michaelstad         1        0.1           95.6
## 926             West Pamela         1        0.1           95.7
## 927              West Randy         1        0.1           95.8
## 928       West Raymondmouth         1        0.1           95.9
## 929        West Rhondamouth         1        0.1           96.0
## 930            West Ricardo         1        0.1           96.1
## 931            West Richard         1        0.1           96.2
## 932         West Robertside         1        0.1           96.3
## 933            West Roytown         1        0.1           96.4
## 934            West Russell         1        0.1           96.5
## 935               West Ryan         1        0.1           96.6
## 936           West Samantha         1        0.1           96.7
## 937             West Sharon         1        0.1           96.8
## 938              West Shaun         1        0.1           96.9
## 939             West Sydney         1        0.1           97.0
## 940             West Tanner         1        0.1           97.1
## 941              West Tanya         1        0.1           97.2
## 942          West Terrifurt         1        0.1           97.3
## 943             West Thomas         1        0.1           97.4
## 944          West Tinashire         1        0.1           97.5
## 945        West Travismouth         1        0.1           97.6
## 946          West Wendyland         1        0.1           97.7
## 947            West William         1        0.1           97.8
## 948     West Zacharyborough         1        0.1           97.9
## 949               Westshire         1        0.1           98.0
## 950              Whiteport         1        0.1           98.1
## 951            Whitneyfort         1        0.1           98.2
## 952              Wilcoxport         1        0.1           98.3
## 953            Williammouth         1        0.1           98.4
## 954             Williamport         1        0.1           98.5
## 955         Williamsborough         1        0.1           98.6
## 956            Williamsfort         1        0.1           98.7
## 957           Williamsmouth         1        0.1           98.8
## 958            Williamsside         1        0.1           98.9
## 959             Williamstad         1        0.1           99.0
## 960             Wilsonburgh         1        0.1           99.1
## 961             Wintersfort         1        0.1           99.2
## 962                Wongland         1        0.1           99.3
## 963             Wrightview         1        0.1           99.4
## 964               Yangside         1        0.1           99.5
## 965             Youngburgh         1        0.1           99.6
```

```
## 966              Youngfort         1        0.1            99.7
## 967                  Yuton         1        0.1            99.8
## 968            Zacharystad         1        0.1            99.9
## 969             Zacharyton         1        0.1           100.0
```

Most users are from Lisamouth and Williamsport.

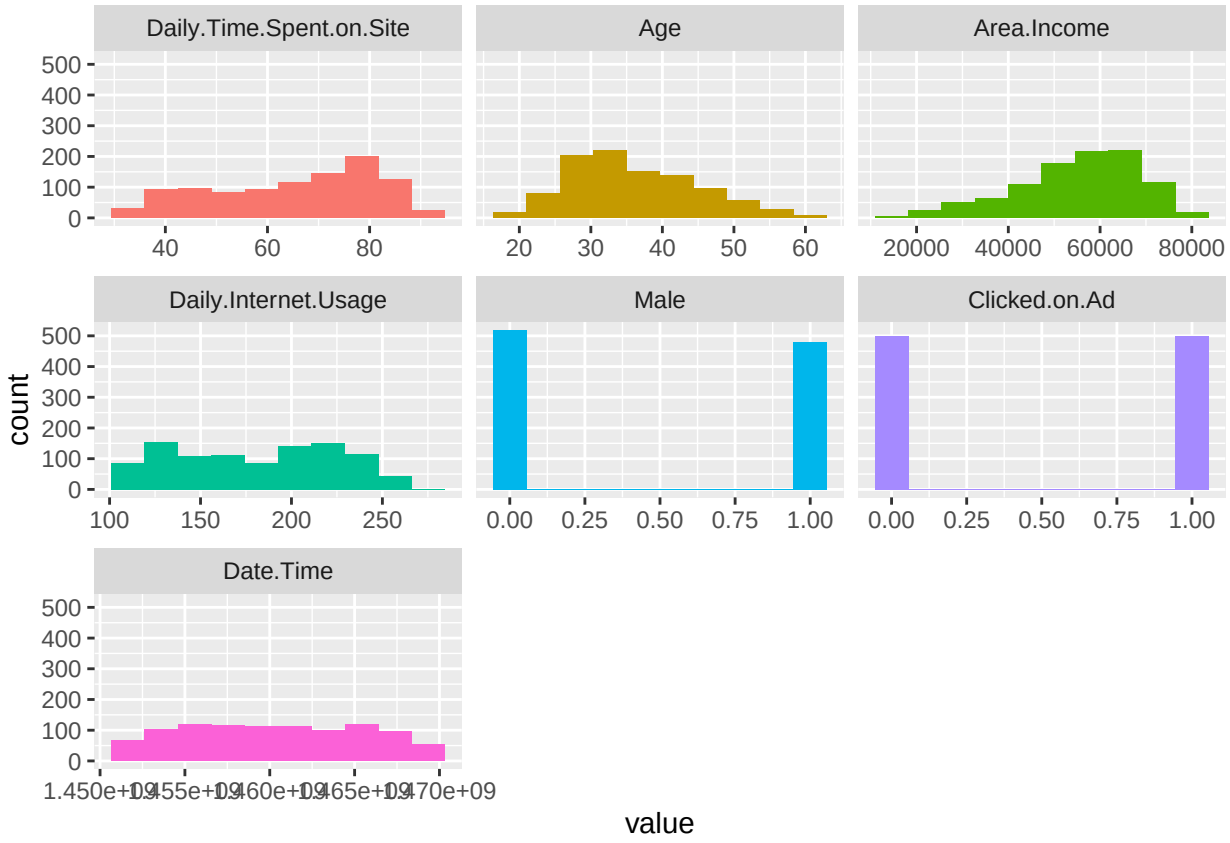
```
#data %>%
#    ggplot(aes(Age)) +
#    geom_histogram(binwidth = 1.25, color = "black",fill = "grey") +
#    labs(title = "Distribution of cIty relative to clicks",
#         x = "Area.Income",
#         y = "Age") +
#    theme_minimal() +
#    scale_x_continuous(breaks = seq(7.5,35,2.5)) +
#    facet_grid(Clicked.on.Ad~.)
```

Profiling our numerical Variables

```
plot_num(data)#This function  plots the distribution of every numerical variable while automatically ex
```

```
## Warning: attributes are not identical across measure variables; they will be
## dropped
```

```
## Warning: `guides(<scale> = FALSE)` is deprecated. Please use `guides(<scale> =
## "none")` instead.
```



From the above we can see that the age distributions is mostly on the right showing that most of the blog visitors ar below 40 years. Daily time spent is highest at 80.The Area income is above 50000 and its highest at around 70000 with the daily internet usage highest at 120 appr.Most users were from the countries Czetch Republic and France, and from the Cities, Lisamouth and Williamsport.

Correlation and Relationships

```
# Loading needed libraries
library(funModeling) # contains heart_disease data
#install.packages('minerva')
#library(minerva) # contains MIC statistic
library(ggplot2)
library(dplyr)
library(lessR)
```

```
##
## lessR 4.0.2  feedback: gerbing@pdx.edu  web: lessRstats.com/new
## ---------------------------------------------------------------
## > d <- Read("")   Read text, Excel, SPSS, SAS, or R data file
##   d is default data frame, data= in analysis routines optional
##
## Learn about reading, writing, and manipulating data, graphics,
## testing means and proportions, regression, factor analysis,
## customization, and descriptive statistics from pivot tables.
##   Enter:  browseVignettes("lessR")
##
## View changes in this new version of lessR.
##   Enter: help(package=lessR)  Click: Package NEWS
```

```
##
## Attaching package: 'lessR'
```

```
## The following object is masked from 'package:moments':
##
##     kurtosis
```

```
## The following object is masked from 'package:dplyr':
##
##     recode
```

```
## The following objects are masked from 'package:Hmisc':
##
##     label, Merge
```

```
library(reshape2)
```

```
##
## Attaching package: 'reshape2'
```

```
## The following object is masked from 'package:tidyr':
##
##     smiths
```

```
library(gridExtra) # allow us to plot two plots in a row
```

```
##
## Attaching package: 'gridExtra'
```

```
## The following object is masked from 'package:dplyr':
##
##     combine
```

```
options(scipen=999) # disable scientific notation
```

```
#b<- BarChart(Daily.Time.Spent.on.Site, data=data, by=Country)
#b$freq
```

We will first look at the linear correlation between variables and our target variable

```
correlation_table(data=data, target="Clicked.on.Ad")
```

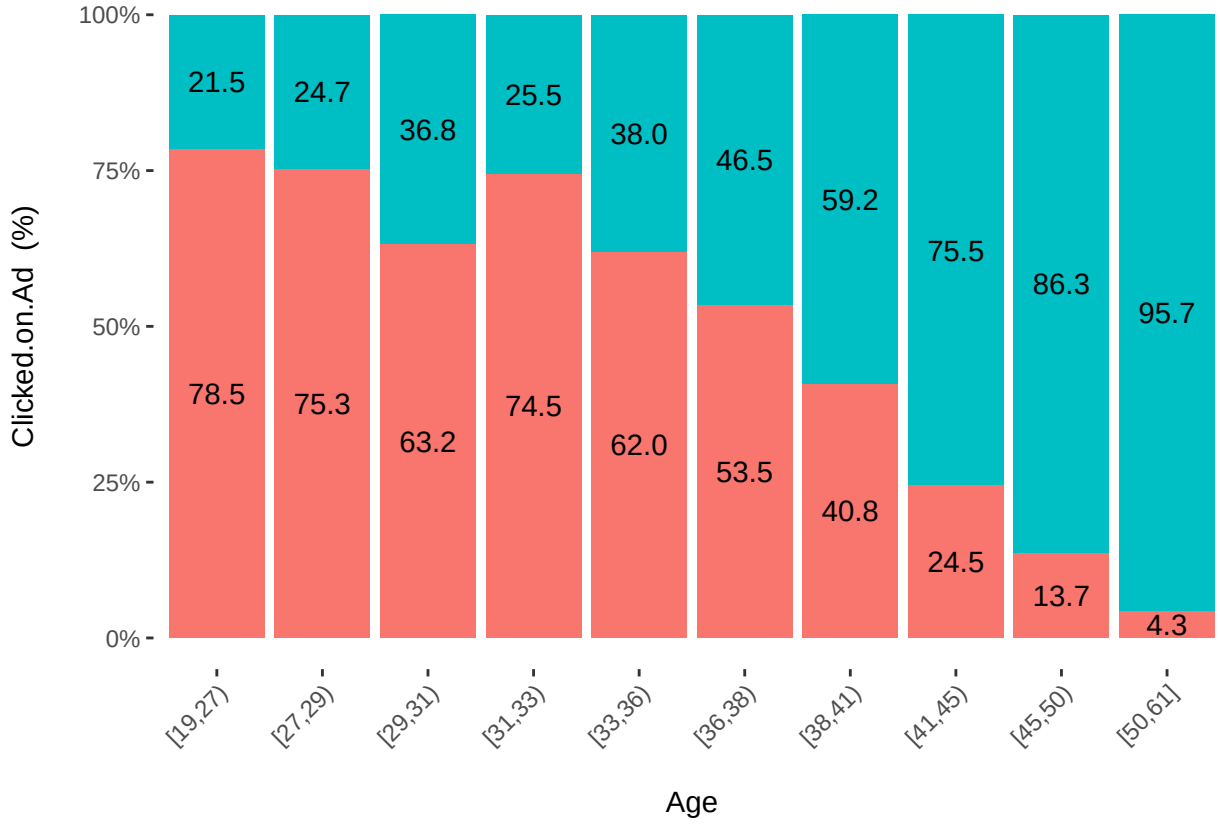
```
##                   Variable Clicked.on.Ad
## 1            Clicked.on.Ad          1.00
## 2                      Age          0.49
## 3              Area.Income         -0.48
## 4 Daily.Time.Spent.on.Site         -0.75
## 5     Daily.Internet.Usage         -0.79
```

Age is the is the most important -numerical- variable though it has a weak correlation with our target variable, The rest have negative correlation We can see the visualization below

Numerical VS Numerical visualizations

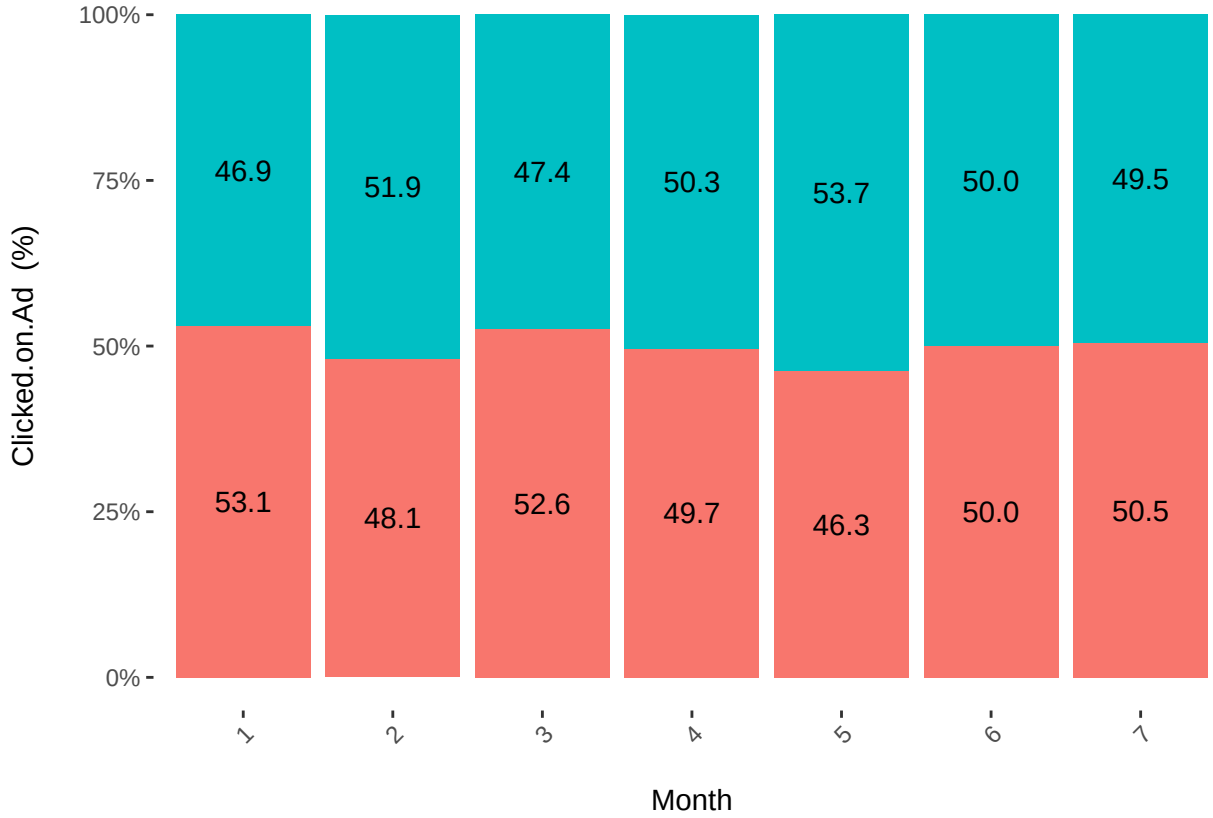
```
cross_plot(data, input = "Age", target = "Clicked.on.Ad", plot_type = "percentual")
```

```
## Plotting transformed variable 'Age' with 'equal_freq', (too many values). Disable with 'auto_binning
```



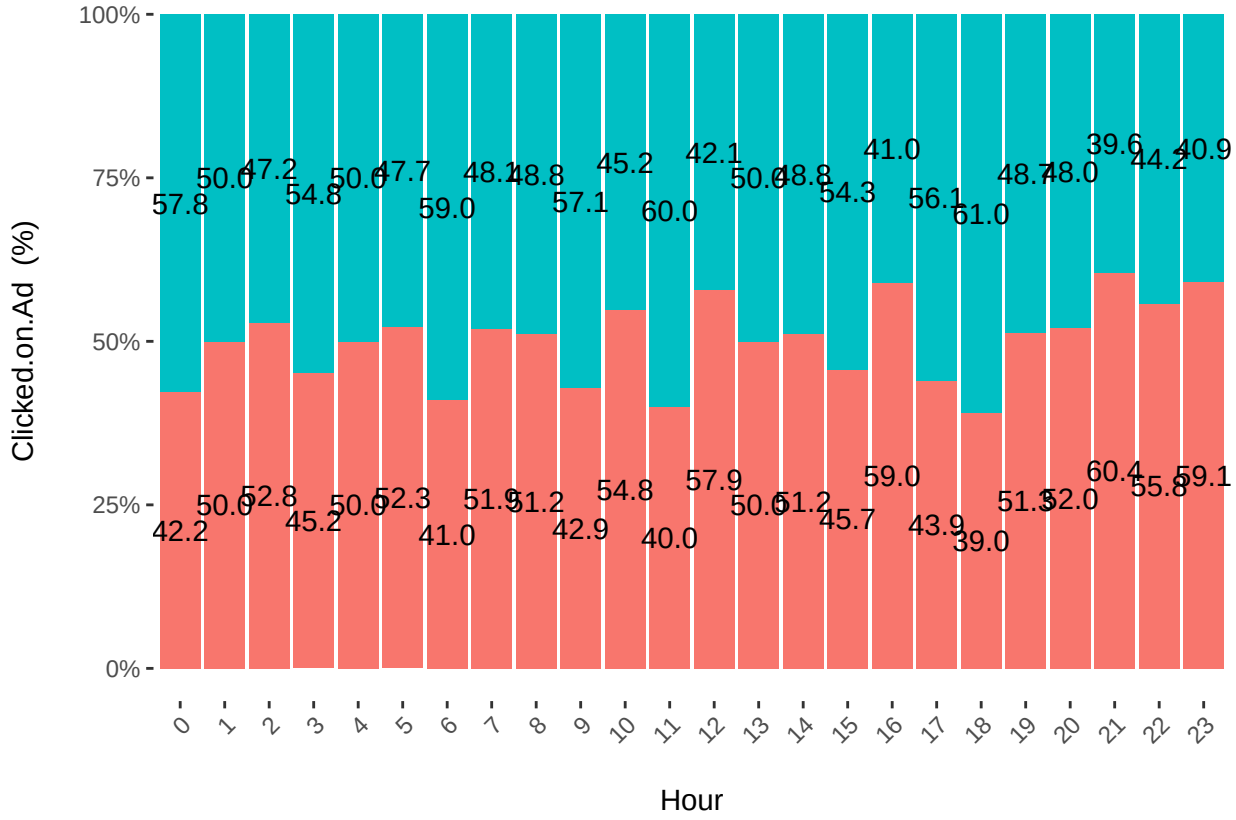
The likely hood of clicking on an ad increases if the users are 41-61 year old males.Younger users are less likely to click on ads

```
cross_plot(data, input = "Month", target = "Clicked.on.Ad", plot_type = "percentual")
```



Most advertisement clicks were in the month of February and in May.

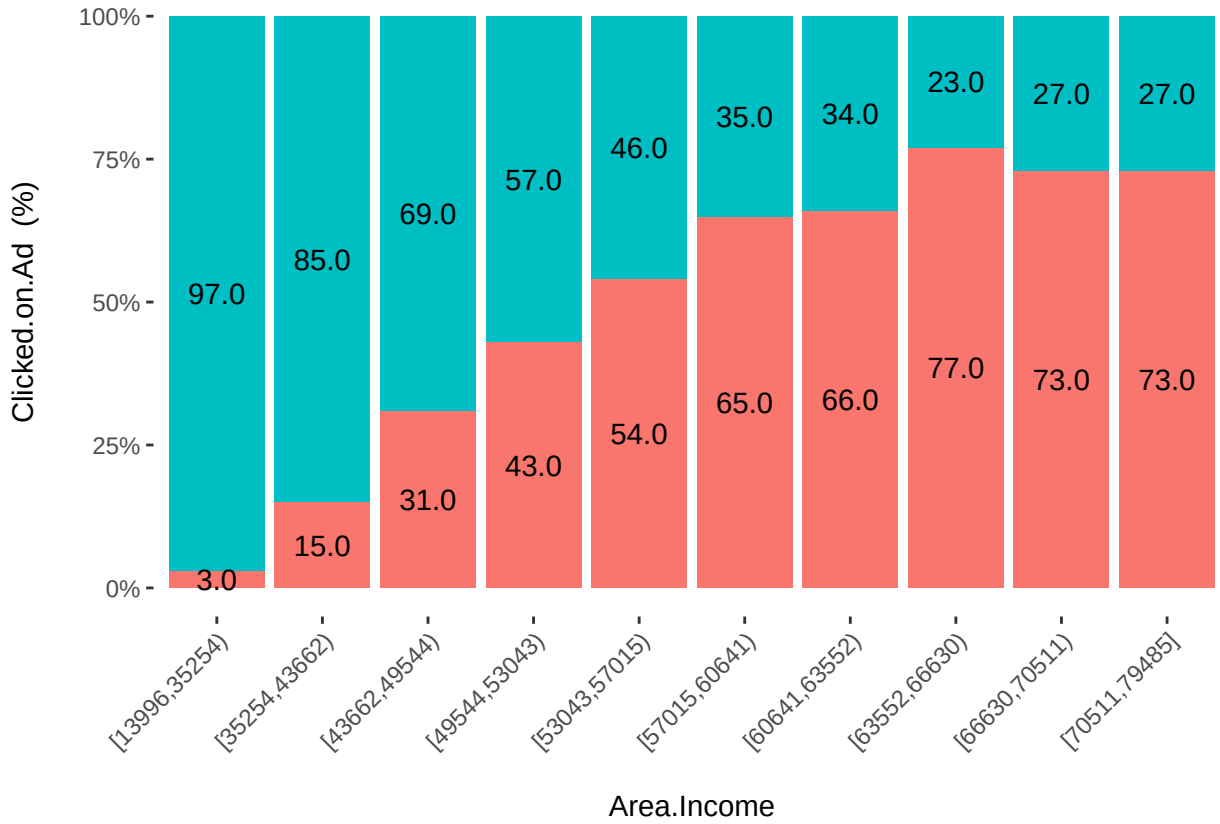
```
cross_plot(data, input = "Hour", target = "Clicked.on.Ad", plot_type = "percentual")
```



Most of those who clicked on the advertisements did so after midnight and during afternoon hours

```
cross_plot(data, input = "Area.Income", target = "Clicked.on.Ad", plot_type = "percentual")
```

```
## Plotting transformed variable 'Area.Income' with 'equal_freq', (too many values). Disable with 'auto
```

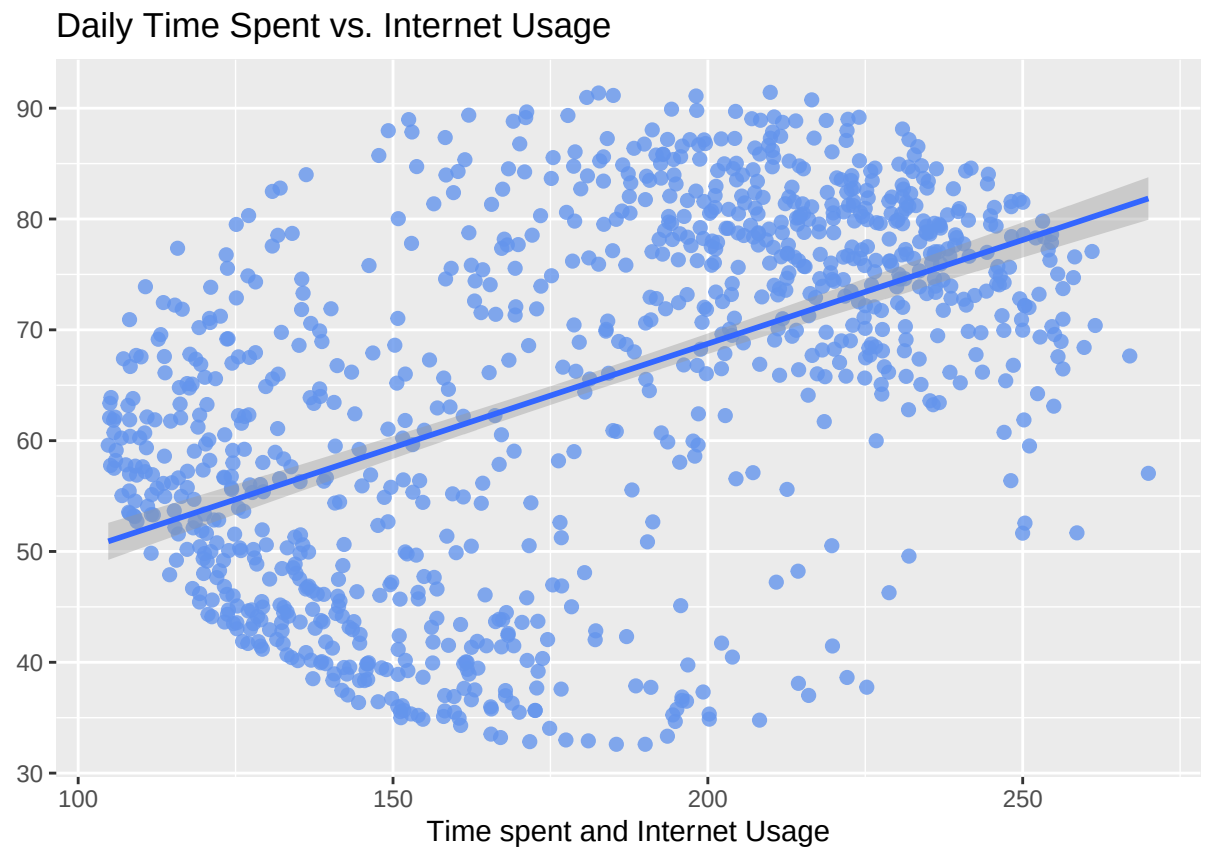


Users from high income areas are less likely to click on the advertisements.

```
#Checking the correlation Daily Time Spent on Site and Internet Usage

# simple scatterplot
ggplot(data,
       aes(x = Daily.Internet.Usage,
           y = Daily.Time.Spent.on.Site)) +
  geom_point(color="cornflowerblue",
             size = 2,
             alpha=.8) +
   geom_smooth(method = "lm") +
   labs(x = "Time spent and Internet Usage",
       y = "",
       title = "Daily Time Spent vs. Internet Usage")
```

```
## `geom_smooth()` using formula 'y ~ x'
```



Finding the covariance between the two

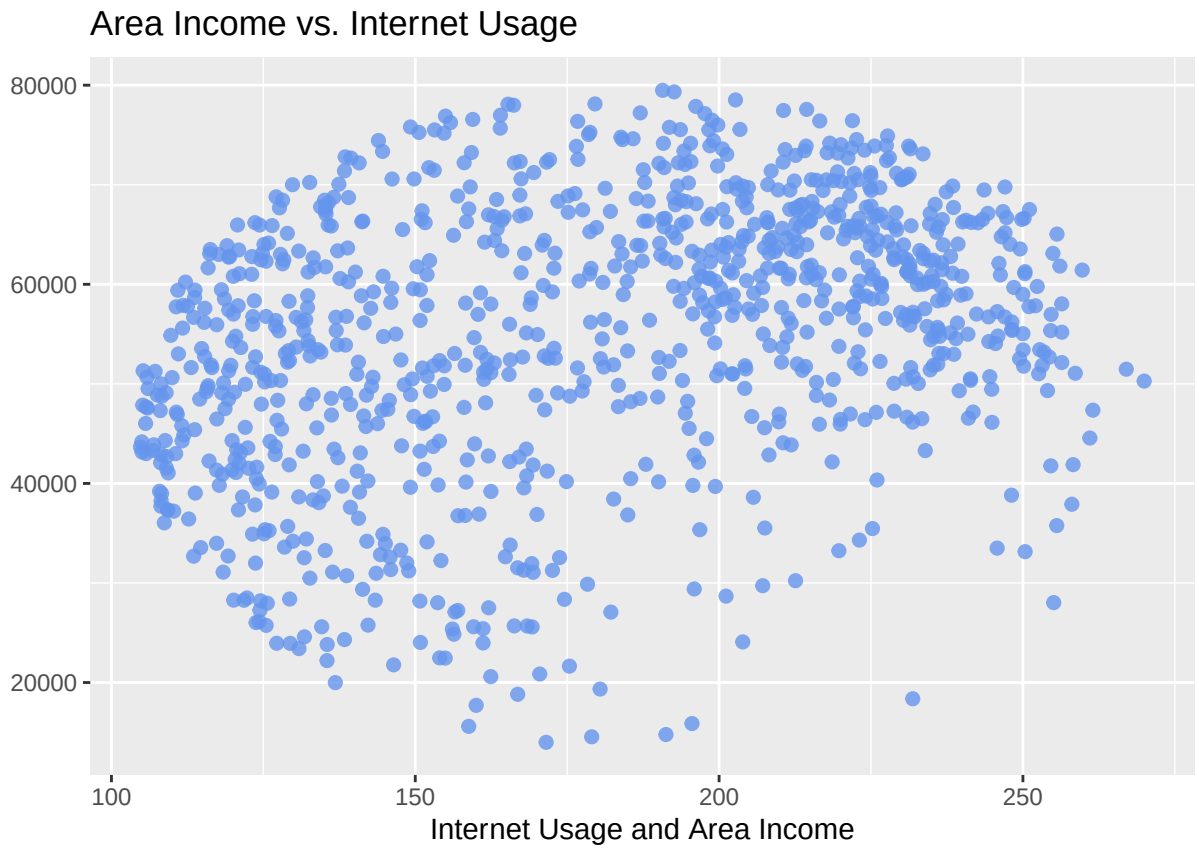
```
cor(data$Daily.Time.Spent.on.Site, data$Daily.Internet.Usage, method="pearson")          # apply the cov
```

```
## [1] 0.5186585
```

The two variables are moderately correlated which could possibly mean the more time spent on site means the more the Internet Usage

```
#Checking the correlation Area Income on Site and Internet Usage

# simple scatterplot
ggplot(data,
       aes(x = Daily.Internet.Usage,
           y = Area.Income)) +
  geom_point(color="cornflowerblue",
             size = 2,
             alpha=.8) +
  # geom_smooth(method = "lm") +
   labs(x = "Internet Usage and Area Income",
       y = "",
       title = "Area Income vs. Internet Usage")
```



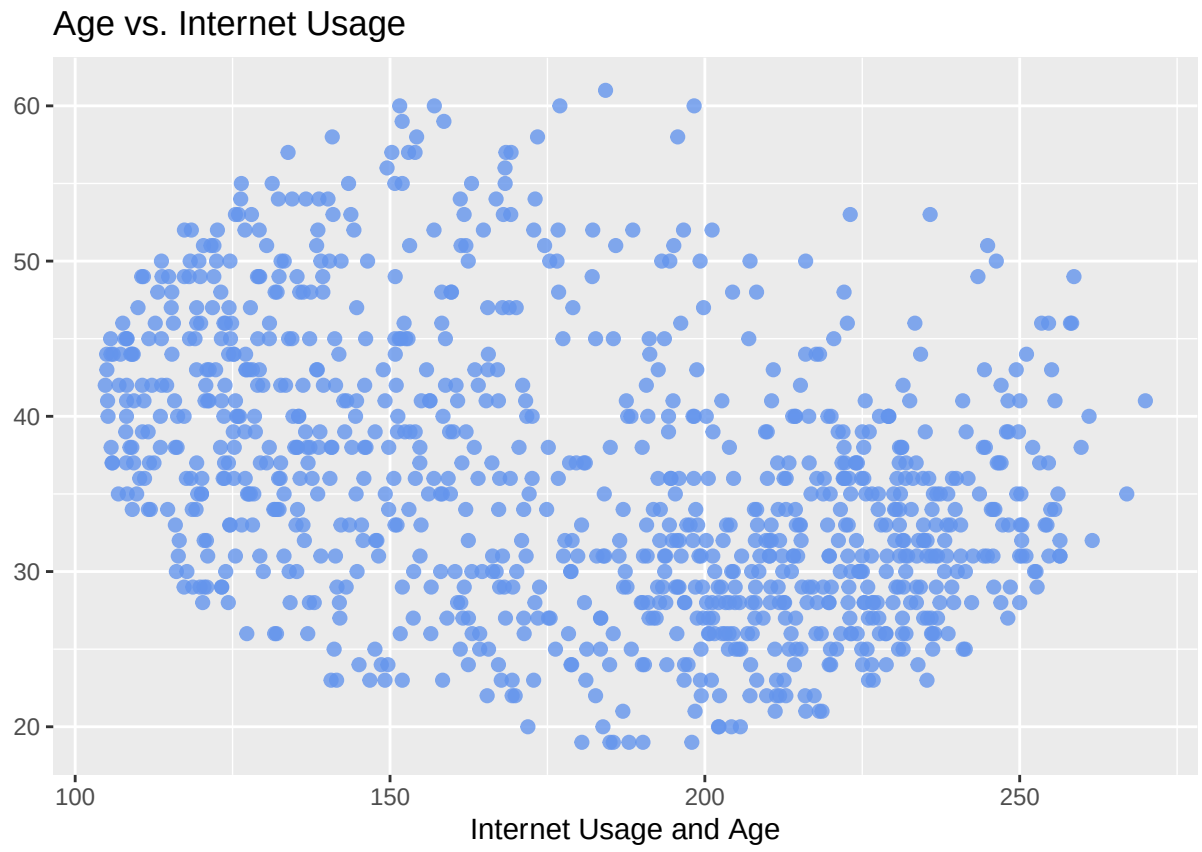

```
cor(data$Daily.Internet.Usage, data$Area.Income, method="pearson")
```

```
## [1] 0.3374955
```

The variables are moderately correlated

```
#Checking the correlation Age on Site and Internet Usage

# simple scatterplot
ggplot(data,
       aes(x = Daily_Internet_Usage,
           y = Age)) +
  geom_point(color="cornflowerblue",
             size = 2,
             alpha=.8) +
  # geom_smooth(method = "lm") +
   labs(x = "Internet Usage and Age",
       y = "",
       title = "Age vs. Internet Usage")
```




```
cor(data$Daily.Internet.Usage, data$Age, method="pearson")
```

```
## [1] -0.3672086
```

Multivariate Analysis

```
numeric_v <- data %>%
  select_if(is.numeric) %>%
  select(Age, Daily.Time.Spent.on.Site, Area.Income, Daily.Internet.Usage)
```

```
#install.packages('GGally')
library(GGally)
```

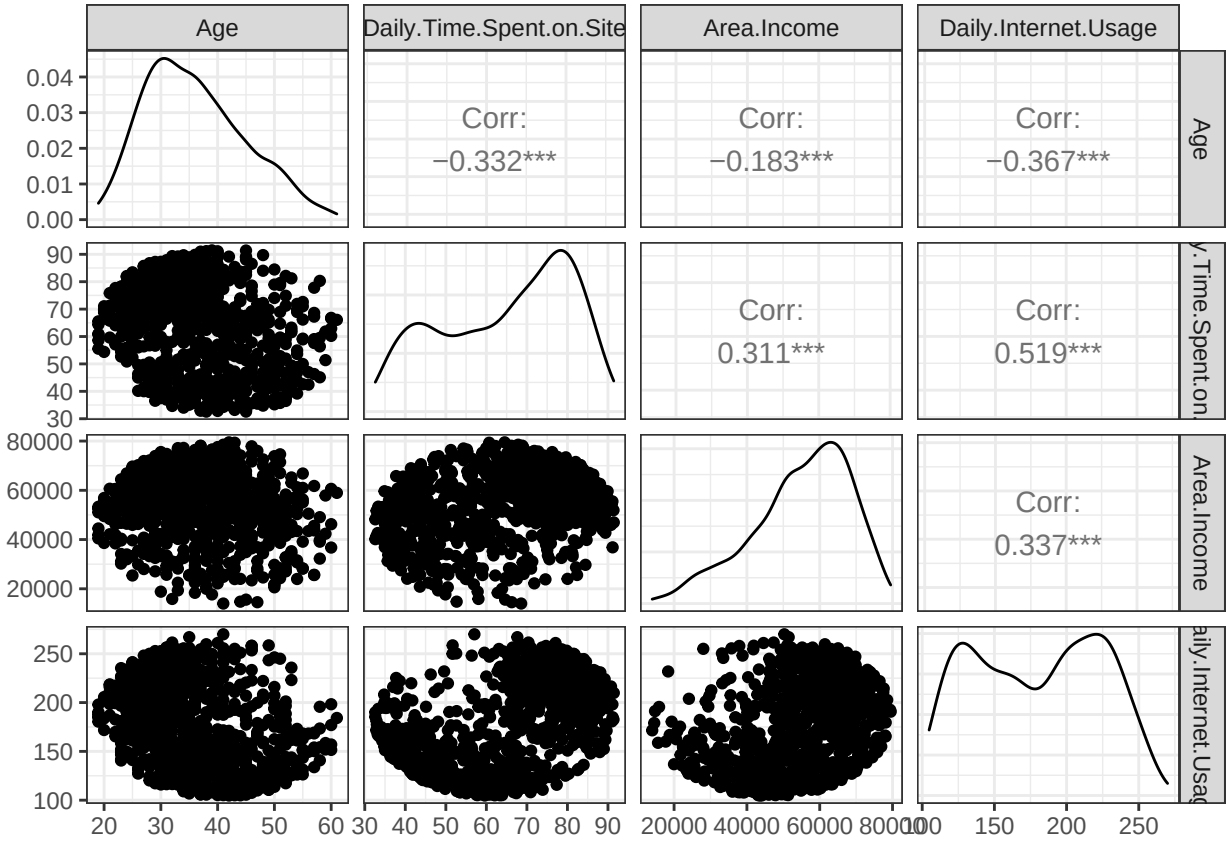
```
## Registered S3 method overwritten by 'GGally':
##   method from
##   +.gg   ggplot2
```

```
##
## Attaching package: 'GGally'
```

```
## The following object is masked from 'package:pander':
##
##     wrap
```

```
## The following object is masked from 'package:funModeling':
##
##     range01
```

```
library(ggplot2)
ggpairs(numeric_v[,-5])+ theme_bw()
```



d) Modelling

##Supervised Learning Algorithms

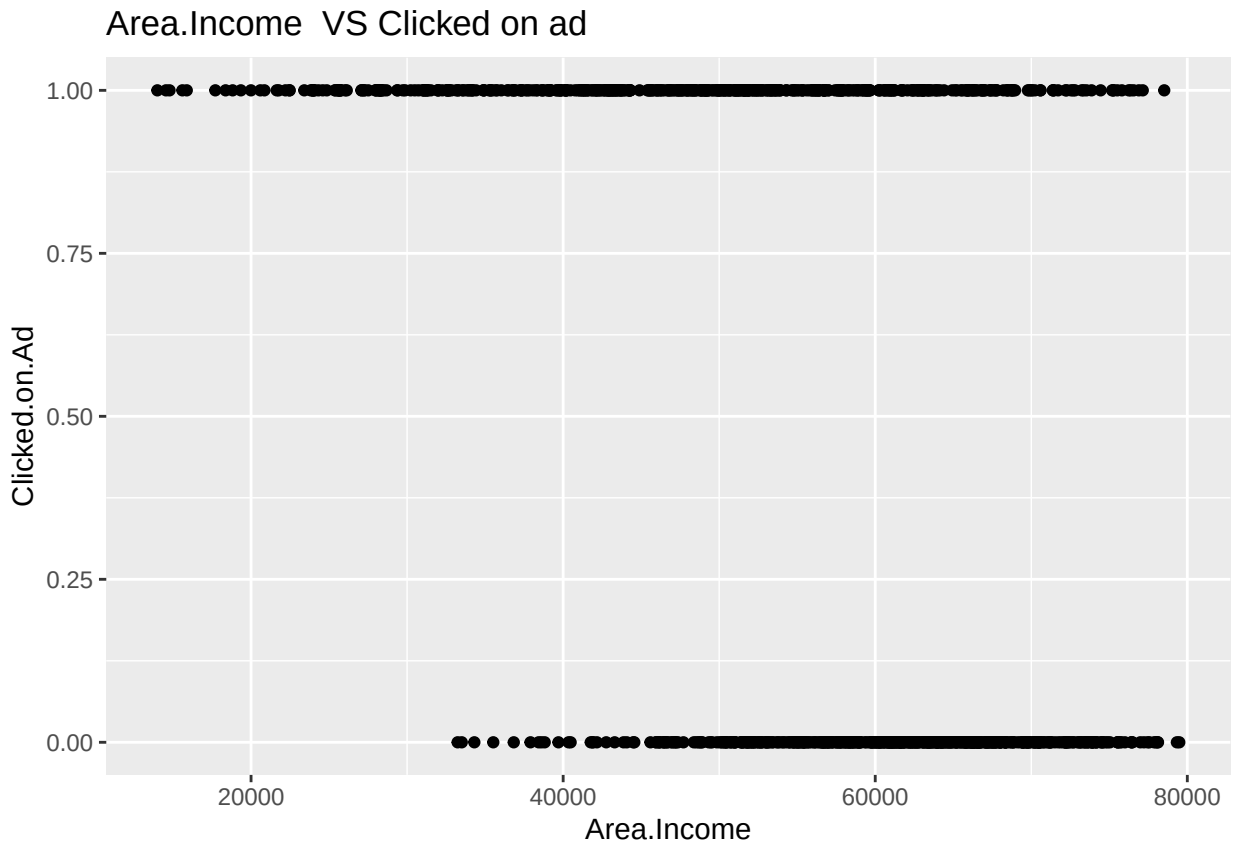
We will now use some of the Supervised learning models that we've learnt to help identify and predict which individuals are most likely to click on the ads in the blog.

Simple Regression

Even thou we had previously visualized some variables using scatter plots while exploring their relationships, we will try to create a model with the daily internet usage variable.

We will use a scatter plots can help visualize any linear relationships between the dependent (response~Clicked.on.ads.) variable and independent (predictor~Daily.Internet.Usage) variables.

```
# Area.Income
ggplot(data, aes(Area.Income, Clicked.on.Ad))+
  geom_point()+
  labs(title = "Area.Income  VS Clicked on ad",
       x = "Area.Income",
       y = "Clicked.on.Ad")
```



Examining the correlation coefficient

```
cor(data$Area.Income, data$Clicked.on.Ad)
```

```
## [1] -0.4762546
```

```
#The correlation is close to -1 meaning if one increases, the other one decreases
```

Building our Simple regression model

```
# The linear model function lm, will create the relationship model between the predictor and the respon
# Clicked.on.Ad~Daily.Internet.Usage presenting the relation between x and y and data the vector on whi
simple_lm <- lm(Clicked.on.Ad~Area.Income, data)
simple_lm
```

```
##
## Call:
## lm(formula = Clicked.on.Ad ~ Area.Income, data = data)
##
## Coefficients:
## (Intercept)  Area.Income
##  1.47681052  -0.00001776
```

```
# Generating the anova table. This table will
# contain the sums of squares, degrees of freedom, F statistic, and p value
#
anova(simple_lm)
```

```
## Analysis of Variance Table
##
## Response: Clicked.on.Ad
##              Df  Sum Sq Mean Sq F value                Pr(>F)
## Area.Income   1  56.705  56.705  292.77 < 0.00000000000000022 ***
## Residuals   998 193.295   0.194
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
```

```
library(nlme)
```

```
##
## Attaching package: 'nlme'
```

```
## The following object is masked from 'package:dplyr':
##
##     collapse
```

```
library(broom)

glance(simple_lm)
```

```
## # A tibble: 1 x 12
##   r.squared adj.r.squared sigma statistic  p.value    df logLik   AIC   BIC
##       <dbl>         <dbl> <dbl>     <dbl>    <dbl> <dbl>  <dbl> <dbl> <dbl>
## 1     0.227         0.226 0.440      293. 9.45e-58     1  -597. 1200. 1215.
## # ... with 3 more variables: deviance <dbl>, df.residual <int>, nobs <int>
```

Let us now try to predict using a new value and see how our model performs

```
newrates <- data.frame(Area.Income = c(5732.92, 85273.72, 64737.22))
newrates
```

```
##   Area.Income
## 1     5732.92
## 2    85273.72
## 3    64737.22
```

```
# Predicting using our new rate
pred <- predict(simple_lm, newrates, interval = "confidence")
# Print it
pred
```

```
##           fit        lwr        upr
## 1  1.37499277  1.2709933 1.47899221
## 2 -0.03766706 -0.1051071 0.02977299
## 3  0.32706511  0.2933132 0.36081700
```

The lwr and upr confidence intervals of area income 5732.92 fall on 1 which from inferences made is a likely scenario since users from low income area are more likely to click on the ad that those from high income areas.

Let us challenge the solution Implemented using a simple linear regression model.For this we will use the KNN and Naive Bayes Models

K-Nearest neighbors

K-Nearest Neighbors is a simple algorithm that stores all available cases and classifies new cases by a majority vote of its k-neighbors

```
numeric_x <- data %>%
  select_if(is.numeric) %>%
  select(Age, Daily.Time.Spent.on.Site, Area.Income, Daily.Internet.Usage, Clicked.on.Ad)
str(numeric_x) #is the subset of data we will use as our predictor variables. It contains our numeric v
```

```
## 'data.frame':    1000 obs. of  5 variables:
##  $ Age                     : int  35 31 26 29 35 23 33 48 30 20 ...
##  $ Daily.Time.Spent.on.Site: num  69 80.2 69.5 74.2 68.4 ...
##  $ Area.Income             : num  61834 68442 59786 54806 73890 ...
##  $ Daily.Internet.Usage    : num  256 194 236 246 226 ...
##  $ Clicked.on.Ad           : int  0 0 0 0 0 0 0 1 0 0 ...
```

We need to normalize our data so that the output remains unbiased

```
#Normalization function
normalize <- function(x) {
return ((x - min(x)) / (max(x) - min(x))) }
```

We're storing the normalized data set in the 'predictor.n' variable .

```
predictor.n <- as.data.frame(lapply(numeric_x[,1:4], normalize))
```

We will then split our data into train and test sets

```
set.seed(123)
dat.a <- sample(1:nrow(predictor.n),size=nrow(predictor.n)*0.7,replace = FALSE) #random selection of 70

train.set <- numeric_x[dat.a,] # 70% training data
test.set <- numeric_x[-dat.a,] # remaining 30% test data
```

We are also going to create a separate data frame for the 'Clicked.on.AD' variable so that our final outcome can be compared with the actual value.

```
#Creating seperate dataframe for 'Clicked on Ad' feature which is our target.

train.ad_labels <- numeric_x[dat.a,5]
test.ad_labels <-numeric_x[-dat.a,5]
```

Building our model

```
#Install class package
#install.packages('class')#we will use the class package which has the knn function in it
# Load class package
library(class)
```

Next going to calculate the number of observations in the training data set and get the square root to initialize the value of 'K' in the KNN model. One of the ways to find the optimal K value is to calculate the square root of the total number of observations in the data set.

```
#Find the number of observation
NROW(train.ad_labels)#we have 700 observations. square root of 700 is 26.46. We will create our model w
```

```
## [1] 700
```

```
knn.model <- knn(train=train.set, test=test.set, cl=train.ad_labels, k=26)
```

```
#Calculate the proportion of correct classification for k = 26
accuracy <- 100 * sum(test.ad_labels == knn.model)/NROW(test.ad_labels)
accuracy
```

```
## [1] 73.66667
```

our model achieved an accuracy of 73%. We will now check the prediction against the actual value which we stored earlier

```
table(knn.model ,test.ad_labels)
```

```
##           test.ad_labels
## knn.model   0   1
##         0 122  47
##         1  32  99
```

The model did not perform too badly but we will try to explore other algorithms to find the best model

Support Vector Machine since we had previously sliced my data, we are going to go straight into building our model. But before that since Support Vector machine is a classifier we will convert the response variable to a factor.

```
#install.packages('tidyverse')
library(tidyverse)
```

```
## -- Attaching packages --------------------------------------- tidyverse 1.3.1 --
```

```
## v tibble  3.1.3     v purrr   0.3.4
## v readr   2.0.1     v stringr 1.4.0
```

```
## -- Conflicts ------------------------------------------ tidyverse_conflicts() --
## x lubridate::as.difftime() masks base::as.difftime()
## x nlme::collapse()         masks dplyr::collapse()
## x gridExtra::combine()     masks dplyr::combine()
```

```
## x lubridate::date()        masks base::date()
## x dplyr::filter()          masks stats::filter()
## x lubridate::intersect()   masks base::intersect()
## x dplyr::lag()             masks stats::lag()
## x lessR::recode()          masks dplyr::recode()
## x lubridate::setdiff()     masks base::setdiff()
## x dplyr::src()             masks Hmisc::src()
## x dplyr::summarize()       masks Hmisc::summarize()
## x lubridate::union()       masks base::union()
```

```
#install.packages('ggplot2')
library(ggplot2)

#install.packages('caret')
library(caret)
```

```
##
## Attaching package: 'caret'

## The following object is masked from 'package:purrr':
##
##     lift

## The following object is masked from 'package:survival':
##
##     cluster
```

```
#install.packages('caretEnsemble')
library(caretEnsemble)
```

```
##
## Attaching package: 'caretEnsemble'

## The following object is masked from 'package:ggplot2':
##
##     autoplot
```

```
#install.packages('psych')
library(psych)
```

```
##
## Attaching package: 'psych'

## The following objects are masked from 'package:lessR':
##
##     reflect, rescale, scree, skew

## The following object is masked from 'package:Hmisc':
##
##     describe
```

```
## The following objects are masked from 'package:ggplot2':
##
##     %+%, alpha
```

```
#install.packages('Amelia')
library(Amelia)
```

```
## Loading required package: Rcpp
```

```
## ##
## ## Amelia II: Multiple Imputation
## ## (Version 1.8.0, built: 2021-05-26)
## ## Copyright (C) 2005-2021 James Honaker, Gary King and Matthew Blackwell
## ## Refer to http://gking.harvard.edu/amelia/ for more information
## ##
```

```
#install.packages('mice')
library(mice)
```

```
##
## Attaching package: 'mice'
```

```
## The following object is masked from 'package:stats':
##
##     filter
```

```
## The following objects are masked from 'package:base':
##
##     cbind, rbind
```

Creating a copy of our dataframe

```
df<-data.frame(data)
df
```

```
##      Daily.Time.Spent.on.Site Age Area.Income Daily.Internet.Usage
## 1                       68.95  35    61833.90               256.09
## 2                       80.23  31    68441.85               193.77
## 3                       69.47  26    59785.94               236.50
## 4                       74.15  29    54806.18               245.89
## 5                       68.37  35    73889.99               225.58
## 6                       59.99  23    59761.56               226.74
## 7                       88.91  33    53852.85               208.36
## 8                       66.00  48    24593.33               131.76
## 9                       74.53  30    68862.00               221.51
## 10                      69.88  20    55642.32               183.82
## 11                      47.64  49    45632.51               122.02
## 12                      83.07  37    62491.01               230.87
## 13                      69.57  48    51636.92               113.12
## 14                      79.52  24    51739.63               214.23
## 15                      42.95  33    30976.00               143.56
```

```
## 16                63.45  23    52182.23              140.64
## 17                55.39  37    23936.86              129.41
## 18                82.03  41    71511.08              187.53
## 19                54.70  36    31087.54              118.39
## 20                74.58  40    23821.72              135.51
## 21                77.22  30    64802.33              224.44
## 22                84.59  35    60015.57              226.54
## 23                41.49  52    32635.70              164.83
## 24                87.29  36    61628.72              209.93
## 25                41.39  41    68962.32              167.22
## 26                78.74  28    64828.00              204.79
## 27                48.53  28    38067.08              134.14
## 28                51.95  52    58295.82              129.23
## 29                70.20  34    32708.94              119.20
## 30                76.02  22    46179.97              209.82
## 31                67.64  35    51473.28              267.01
## 32                86.41  28    45593.93              207.48
## 33                59.05  57    25583.29              169.23
## 34                55.60  23    30227.98              212.58
## 35                57.64  57    45580.92              133.81
## 36                84.37  30    61389.50              201.58
## 37                62.26  53    56770.79              125.45
## 38                65.82  39    76435.30              221.94
## 39                50.43  46    57425.87              119.32
## 40                38.93  39    27508.41              162.08
## 41                84.98  29    57691.95              202.61
## 42                64.24  30    59784.18              252.36
## 43                82.52  32    66572.39              198.11
## 44                81.38  31    64929.61              212.30
## 45                80.47  25    57519.64              204.86
## 46                37.68  52    53575.48              172.83
## 47                69.62  20    50983.75              202.25
## 48                85.40  43    67058.72              198.72
## 49                44.33  37    52723.34              123.72
## 50                48.01  46    54286.10              119.93
## 51                73.18  23    61526.25              196.71
## 52                79.94  28    58526.04              225.29
## 53                33.33  45    53350.11              193.58
## 54                50.33  50    62657.53              133.20
## 55                62.31  47    62722.57              119.30
## 56                80.60  31    67479.62              177.55
## 57                65.19  36    75254.88              150.61
## 58                44.98  49    52336.64              129.31
## 59                77.63  29    56113.37              239.22
## 60                41.82  41    24852.90              156.36
## 61                85.61  27    47708.42              183.43
## 62                85.84  34    64654.66              192.93
## 63                72.08  29    71228.44              169.50
## 64                86.06  32    61601.05              178.92
## 65                45.96  45    66281.46              141.22
## 66                62.42  29    73910.90              198.50
## 67                63.89  40    51317.33              105.22
## 68                35.33  32    51510.18              200.22
## 69                75.74  25    61005.87              215.25
```

```
## 70                78.53  34    32536.98            131.72
## 71                46.13  31    60248.97            139.01
## 72                69.01  46    74543.81            222.63
## 73                55.35  39    75509.61            153.17
## 74                33.21  43    42650.32            167.07
## 75                38.46  42    58183.04            145.98
## 76                64.10  22    60465.72            215.93
## 77                49.81  35    57009.76            120.06
## 78                82.73  33    54541.56            238.99
## 79                56.14  38    32689.04            113.53
## 80                55.13  45    55605.92            111.71
## 81                78.11  27    63296.87            209.25
## 82                73.46  28    65653.47            222.75
## 83                56.64  38    61652.53            115.91
## 84                68.94  54    30726.26            138.71
## 85                70.79  31    74535.94            184.10
## 86                57.76  41    47861.93            105.15
## 87                77.51  36    73600.28            200.55
## 88                52.70  34    58543.94            118.60
## 89                57.70  34    42696.67            109.07
## 90                56.89  37    37334.78            109.29
## 91                69.90  43    71392.53            138.35
## 92                55.79  24    59550.05            149.67
## 93                70.03  26    64264.25            227.72
## 94                50.08  40    64147.86            125.85
## 95                43.67  31    25686.34            166.29
## 96                72.84  26    52968.22            238.63
## 97                45.72  36    22473.08            154.02
## 98                39.94  41    64927.19            156.30
## 99                35.61  46    51868.85            158.22
## 100               79.71  34    69456.83            211.65
## 101               41.49  53    31947.65            169.18
## 102               63.60  23    51864.77            235.28
## 103               89.91  40    59593.56            194.23
## 104               68.18  21    48376.14            218.17
## 105               66.49  20    56884.74            202.16
## 106               80.49  40    67186.54            229.12
## 107               72.23  25    46557.92            241.03
## 108               42.39  42    66541.05            150.99
## 109               47.53  30    33258.09            135.18
## 110               74.02  32    72272.90            210.54
## 111               66.63  60    60333.38            176.98
## 112               63.24  53    65229.13            235.78
## 113               71.00  22    56067.38            211.87
## 114               46.13  46    37838.72            123.64
## 115               69.00  32    72683.35            221.21
## 116               76.99  31    56729.78            244.34
## 117               72.60  55    66815.54            162.95
## 118               61.88  42    60223.52            112.19
## 119               84.45  50    29727.79            207.18
## 120               88.97  45    49269.98            152.49
## 121               86.19  31    57669.41            210.26
## 122               49.58  26    56791.75            231.94
## 123               77.65  27    63274.88            212.79
```

```
## 124  37.75  36  35466.80  225.24
## 125  62.33  43  68787.09  127.11
## 126  79.57  31  61227.59  230.93
## 127  80.31  44  56366.88  127.07
## 128  89.05  45  57868.44  206.98
## 129  70.41  27  66618.21  223.03
## 130  67.36  37  73104.47  233.56
## 131  46.98  50  21644.91  175.37
## 132  41.67  36  53817.02  132.55
## 133  51.24  36  76368.31  176.73
## 134  75.70  29  67633.44  215.44
## 135  43.49  47  50335.46  127.83
## 136  49.89  39  17709.98  160.03
## 137  38.37  36  41229.16  140.46
## 138  38.52  38  42581.23  137.28
## 139  71.89  23  61617.98  172.81
## 140  75.80  38  70575.60  146.19
## 141  83.86  31  64122.36  190.25
## 142  37.51  30  52097.32  163.00
## 143  55.60  44  65953.76  124.38
## 144  83.67  44  60192.72  234.26
## 145  69.08  41  77460.07  210.60
## 146  37.47  44  45716.48  141.89
## 147  56.04  49  65120.86  128.95
## 148  70.92  41  49995.63  108.16
## 149  49.78  46  71718.51  152.24
## 150  68.61  57  61770.34  150.29
## 151  58.18  25  69112.84  176.28
## 152  78.54  35  72524.86  172.10
## 153  37.00  48  36782.38  158.22
## 154  65.40  33  66699.12  247.31
## 155  79.52  27  64287.78  183.48
## 156  87.98  38  56637.59  222.11
## 157  44.64  36  55787.58  127.01
## 158  41.73  28  61142.33  202.18
## 159  80.46  27  61625.87  207.96
## 160  75.55  36  73234.87  159.24
## 161  76.32  35  74166.24  195.31
## 162  82.68  33  62669.59  222.77
## 163  72.01  31  57756.89  251.00
## 164  75.83  24  58019.64  162.44
## 165  41.28  50  50960.08  140.39
## 166  34.66  32  48246.60  194.83
## 167  66.18  55  28271.84  143.42
## 168  86.06  31  53767.12  219.72
## 169  59.59  42  43662.10  104.78
## 170  86.69  34  62238.58  198.56
## 171  43.77  52  49030.03  138.55
## 172  71.84  47  76003.47  199.79
## 173  80.23  31  68094.85  196.23
## 174  74.41  26  64395.85  163.05
## 175  63.36  48  70053.27  137.43
## 176  71.74  35  72423.97  227.56
## 177  60.72  44  42995.80  105.69
```

```
## 178  72.04  22  60309.58  199.43
## 179  44.57  31  38349.78  133.17
## 180  85.86  34  63115.34  208.23
## 181  39.85  38  31343.39  145.96
## 182  84.53  27  40763.13  168.34
## 183  62.95  60  36752.24  157.04
## 184  67.58  41  65044.59  255.61
## 185  85.56  29  53673.08  210.46
## 186  46.88  54  43444.86  136.64
## 187  46.31  57  44248.52  153.98
## 188  77.95  31  62572.88  233.65
## 189  84.73  30  39840.55  153.76
## 190  39.86  36  32593.59  145.85
## 191  50.08  30  41629.86  123.91
## 192  60.23  35  43313.73  106.86
## 193  60.70  49  42993.48  110.57
## 194  43.67  53  46004.31  143.79
## 195  77.20  33  49325.48  254.05
## 196  71.86  32  51633.34  116.53
## 197  44.78  45  63363.04  137.24
## 198  78.57  36  64045.93  239.32
## 199  73.41  31  73049.30  201.26
## 200  77.05  27  66624.60  191.14
## 201  66.40  40  77567.85  214.42
## 202  69.35  29  53431.35  252.77
## 203  35.65  40  31265.75  172.58
## 204  70.04  31  74780.74  183.85
## 205  69.78  29  70410.11  218.79
## 206  58.22  29  37345.24  120.90
## 207  76.90  28  66107.84  212.67
## 208  84.08  30  62336.39  187.36
## 209  59.51  58  39132.64  140.83
## 210  40.15  38  38745.29  134.88
## 211  76.81  28  65172.22  217.85
## 212  41.89  38  68519.96  163.38
## 213  76.87  27  54774.77  235.35
## 214  67.28  43  76246.96  155.80
## 215  81.98  40  65461.92  229.22
## 216  66.01  23  34127.21  151.95
## 217  61.57  53  35253.98  125.94
## 218  53.30  34  44893.71  111.94
## 219  34.87  40  59621.02  200.23
## 220  43.60  38  20856.54  170.49
## 221  77.88  37  55353.41  254.57
## 222  75.83  27  67516.07  200.59
## 223  49.95  39  68737.75  136.59
## 224  60.94  41  76893.84  154.97
## 225  89.15  42  59886.58  171.07
## 226  78.70  30  53441.69  133.99
## 227  57.35  29  41356.31  119.84
## 228  34.86  38  49942.66  154.75
## 229  70.68  31  74430.08  199.08
## 230  76.06  23  58633.63  201.04
## 231  66.67  33  72707.87  228.03
```

```
## 232                46.77  32    31092.93              136.40
## 233                62.42  38    74445.18              143.94
## 234                78.32  28    49309.14              239.52
## 235                37.32  50    56735.14              199.25
## 236                40.42  45    40183.75              133.90
## 237                76.77  36    58348.41              123.51
## 238                65.65  30    72209.99              158.05
## 239                74.32  33    62060.11              128.17
## 240                73.27  32    67113.46              234.75
## 241                80.03  44    24030.06              150.84
## 242                53.68  47    56180.93              115.26
## 243                85.84  32    62204.93              192.85
## 244                85.03  30    60372.64              204.52
## 245                70.44  24    65280.16              178.75
## 246                81.22  53    34309.24              223.09
## 247                39.96  45    59610.81              146.13
## 248                57.05  41    50278.89              269.96
## 249                42.44  56    43450.11              168.27
## 250                62.20  25    25408.21              161.16
## 251                76.70  36    71136.49              222.25
## 252                61.22  45    63883.81              119.03
## 253                84.54  33    64902.47              204.02
## 254                46.08  30    66784.81              164.63
## 255                56.70  48    62784.85              123.13
## 256                81.03  28    63727.50              201.15
## 257                80.91  32    61608.23              231.42
## 258                40.06  38    56782.18              138.68
## 259                83.47  39    64447.77              226.11
## 260                73.84  31    42042.95              121.05
## 261                74.65  28    67669.06              212.56
## 262                60.25  35    54875.95              109.77
## 263                59.21  35    73347.67              144.62
## 264                43.02  44    50199.77              125.22
## 265                84.04  38    50723.67              244.55
## 266                70.66  43    63450.96              120.95
## 267                70.58  26    56694.12              136.94
## 268                72.44  34    70547.16              230.14
## 269                40.17  26    47391.95              171.31
## 270                79.15  26    62312.23              203.23
## 271                44.49  53    63100.13              168.00
## 272                73.04  37    73687.50              221.79
## 273                76.28  33    52686.47              254.34
## 274                68.88  37    78119.50              179.58
## 275                73.10  28    57014.84              242.37
## 276                47.66  29    27086.40              156.54
## 277                87.30  35    58337.18              216.87
## 278                89.34  32    50216.01              177.78
## 279                81.37  26    53049.44              156.48
## 280                81.67  28    62927.96              196.76
## 281                46.37  52    32847.53              144.27
## 282                54.88  24    32006.82              148.61
## 283                40.67  35    48913.07              133.18
## 284                71.76  35    69285.69              237.39
## 285                47.51  51    53700.57              130.41
```

```
## 286  75.15  22  52011.00  212.87
## 287  56.01  26  46339.25  127.26
## 288  82.87  37  67938.77  213.36
## 289  45.05  42  66348.95  141.36
## 290  60.53  24  66873.90  167.22
## 291  50.52  31  72270.88  171.62
## 292  84.71  32  61610.05  210.23
## 293  55.20  39  76560.59  159.46
## 294  81.61  33  62667.51  228.76
## 295  71.55  36  75687.46  163.99
## 296  82.40  36  66744.65  218.97
## 297  73.95  35  67714.82  238.58
## 298  72.07  31  69710.51  226.45
## 299  80.39  31  66269.49  214.74
## 300  65.80  25  60843.32  231.49
## 301  69.97  28  55041.60  250.00
## 302  52.62  50  73863.25  176.52
## 303  39.25  39  62378.05  152.36
## 304  77.56  38  63336.85  130.83
## 305  33.52  43  42191.61  165.56
## 306  79.81  24  56194.56  178.85
## 307  84.79  33  61771.90  214.53
## 308  82.70  35  61383.79  231.07
## 309  84.88  32  63924.82  186.48
## 310  54.92  54  23975.35  161.16
## 311  76.56  34  70179.11  221.53
## 312  69.74  49  66524.80  243.37
## 313  75.55  22  41851.38  169.40
## 314  72.19  33  61275.18  250.35
## 315  84.29  41  60638.38  232.54
## 316  73.89  39  47160.53  110.68
## 317  75.84  21  48537.18  186.98
## 318  73.38  25  53058.91  236.19
## 319  80.72  31  68614.98  186.37
## 320  62.06  44  44174.25  105.00
## 321  51.50  34  67050.16  135.31
## 322  90.97  37  54520.14  180.77
## 323  86.78  30  54952.42  170.13
## 324  66.18  35  69476.42  243.61
## 325  84.33  41  54989.93  240.95
## 326  36.87  36  29398.61  195.91
## 327  34.78  48  42861.42  208.21
## 328  76.84  32  65883.39  231.59
## 329  67.05  25  65421.39  220.92
## 330  41.47  31  60953.93  219.79
## 331  80.71  26  58476.57  200.58
## 332  80.09  31  66636.84  214.08
## 333  56.30  49  67430.96  135.24
## 334  79.36  34  57260.41  245.78
## 335  86.38  40  66359.32  188.27
## 336  38.94  41  57587.00  142.67
## 337  87.26  35  63060.55  184.03
## 338  75.32  28  59998.50  233.60
## 339  74.38  40  74024.61  220.05
```

```
## 340  65.90  22  60550.66  211.39
## 341  36.31  47  57983.30  168.92
## 342  72.23  48  52736.33  115.35
## 343  88.12  38  46653.75  230.91
## 344  83.97  28  56986.73  205.50
## 345  61.09  26  55336.18  131.68
## 346  65.77  21  42162.90  218.61
## 347  81.58  25  39699.13  199.39
## 348  37.87  52  56394.82  188.56
## 349  76.20  37  75044.35  178.51
## 350  60.91  19  53309.61  184.94
## 351  74.49  28  58996.12  237.34
## 352  73.71  23  56605.12  211.38
## 353  78.19  30  62475.99  228.81
## 354  79.54  44  70492.60  217.68
## 355  74.87  52  43698.53  126.97
## 356  87.09  36  57737.51  221.98
## 357  37.45  47  31281.01  167.86
## 358  49.84  39  45800.48  111.59
## 359  51.38  59  42362.49  158.56
## 360  83.40  34  66691.23  207.87
## 361  38.91  33  56369.74  150.80
## 362  62.14  41  59397.89  110.93
## 363  79.72  28  66025.11  193.80
## 364  73.30  36  68211.35  135.72
## 365  69.11  42  73608.99  231.48
## 366  71.90  54  61228.96  140.15
## 367  72.45  29  72325.91  195.36
## 368  77.07  40  44559.43  261.02
## 369  74.62  36  73207.15  217.79
## 370  82.07  25  46722.07  205.38
## 371  58.60  50  45400.50  113.70
## 372  36.08  45  41417.27  151.47
## 373  79.44  26  60845.55  206.79
## 374  41.73  47  60812.77  144.71
## 375  73.19  25  64267.88  203.74
## 376  77.60  24  58151.87  197.33
## 377  89.00  37  52079.18  222.26
## 378  69.20  42  26023.99  123.80
## 379  67.56  31  62318.38  125.45
## 380  81.11  39  56216.57  248.19
## 381  80.22  30  61806.31  224.58
## 382  43.63  41  51662.24  123.25
## 383  77.66  29  67080.94  168.15
## 384  74.63  26  51975.41  235.99
## 385  49.67  27  28019.09  153.69
## 386  80.59  37  67744.56  224.23
## 387  83.49  33  66574.00  190.75
## 388  44.46  42  30487.48  132.66
## 389  68.10  40  74903.41  227.73
## 390  63.88  38  19991.72  136.85
## 391  78.83  36  66050.63  234.64
## 392  79.97  44  70449.04  216.00
## 393  80.51  28  64008.55  200.28
```

```
## 394                62.26  26    70203.74              202.77
## 395                66.99  47    27262.51              124.44
## 396                71.05  20    49544.41              204.22
## 397                42.05  51    28357.27              174.55
## 398                50.52  28    66929.03              219.69
## 399                76.24  40    75524.78              198.32
## 400                77.29  27    66265.34              201.24
## 401                35.98  47    55993.68              165.52
## 402                84.95  34    56379.30              230.36
## 403                39.34  43    31215.88              148.93
## 404                87.23  29    51015.11              202.12
## 405                57.24  52    46473.14              117.35
## 406                81.58  41    55479.62              248.16
## 407                56.34  50    68713.70              139.02
## 408                48.73  27    34191.23              142.04
## 409                51.68  49    51067.54              258.62
## 410                35.34  45    46693.76              152.86
## 411                48.09  33    19345.36              180.42
## 412                78.68  29    66225.72              208.05
## 413                68.82  20    38609.20              205.64
## 414                56.99  40    37713.23              108.15
## 415                86.63  39    63764.28              209.64
## 416                41.18  43    41866.55              129.25
## 417                71.03  32    57846.68              120.85
## 418                72.92  29    69428.73              217.10
## 419                77.14  24    60283.98              184.88
## 420                60.70  43    79332.33              192.60
## 421                34.30  41    53167.68              160.74
## 422                83.71  45    64564.07              220.48
## 423                53.38  35    60803.37              120.06
## 424                58.03  31    28387.42              129.33
## 425                43.59  36    58849.77              132.31
## 426                60.07  42    65963.37              120.75
## 427                54.43  37    75180.20              154.74
## 428                81.99  33    61270.14              230.90
## 429                60.53  29    56759.48              123.28
## 430                84.69  31    46160.63              231.85
## 431                88.72  32    43870.51              211.87
## 432                88.89  35    50439.49              218.80
## 433                69.58  43    28028.74              255.07
## 434                85.23  36    64238.71              212.92
## 435                83.55  39    65816.38              221.18
## 436                56.66  42    72684.44              139.42
## 437                56.39  27    38817.40              248.12
## 438                76.24  27    63976.44              214.42
## 439                57.64  36    37212.54              110.25
## 440                78.18  23    52691.79              167.67
## 441                46.04  32    65499.93              147.92
## 442                79.40  35    63966.72              236.87
## 443                36.44  39    52400.88              147.64
## 444                53.14  38    49111.47              109.00
## 445                32.84  40    41232.89              171.72
## 446                73.72  32    52140.04              256.40
## 447                38.10  34    60641.09              214.38
```

```
## 448                73.93  44    74180.05              218.22
## 449                51.87  50    51869.87              119.65
## 450                77.69  22    48852.58              169.88
## 451                43.41  28    59144.02              160.73
## 452                55.92  24    33951.63              145.08
## 453                80.67  34    58909.36              239.76
## 454                83.42  25    49850.52              183.42
## 455                82.12  52    28679.93              201.15
## 456                66.17  33    69869.66              238.45
## 457                43.01  35    48347.64              127.37
## 458                80.05  25    45959.86              219.94
## 459                64.88  42    70005.51              129.80
## 460                79.82  26    51512.66              223.28
## 461                48.03  40    25598.75              134.60
## 462                32.99  45    49282.87              177.46
## 463                74.88  27    67240.25              175.17
## 464                36.49  52    42136.33              196.61
## 465                88.04  45    62589.84              191.17
## 466                45.70  33    67384.31              151.12
## 467                82.38  35    25603.93              159.60
## 468                52.68  23    39616.00              149.20
## 469                65.59  47    28265.81              121.81
## 470                65.65  25    63879.72              224.92
## 471                43.84  36    70592.81              167.42
## 472                67.69  37    76408.19              216.57
## 473                78.37  24    55015.08              207.27
## 474                81.46  29    51636.12              231.54
## 475                47.48  31    29359.20              141.34
## 476                75.15  33    71296.67              219.49
## 477                78.76  24    46422.76              219.98
## 478                44.96  50    52802.00              132.71
## 479                39.56  41    59243.46              143.13
## 480                39.76  28    35350.55              196.83
## 481                57.11  22    59677.64              207.17
## 482                83.26  40    70225.60              187.76
## 483                69.42  25    65791.17              213.38
## 484                50.60  30    34191.13              129.88
## 485                46.20  37    51315.38              119.30
## 486                66.88  35    62790.96              119.47
## 487                83.97  40    66291.67              158.42
## 488                76.56  30    68030.18              213.75
## 489                35.49  48    43974.49              159.77
## 490                80.29  31    49457.48              244.87
## 491                50.19  40    33987.27              117.30
## 492                59.12  33    28210.03              124.54
## 493                59.88  30    75535.14              193.63
## 494                59.70  28    49158.50              120.25
## 495                67.80  30    39809.69              117.75
## 496                81.59  35    65826.53              223.16
## 497                81.10  29    61172.07              216.49
## 498                41.70  39    42898.21              126.95
## 499                73.94  27    68333.01              173.49
## 500                58.35  37    70232.95              132.63
## 501                51.56  46    63102.19              124.85
```

```
## 502                79.81  37    51847.26              253.17
## 503                66.17  26    63580.22              228.70
## 504                58.21  37    47575.44              105.94
## 505                66.12  49    39031.89              113.80
## 506                80.47  42    70505.06              215.18
## 507                77.05  31    62161.26              236.64
## 508                49.99  41    61068.26              121.07
## 509                80.30  58    49090.51              173.43
## 510                79.36  33    62330.75              234.72
## 511                57.86  30    18819.34              166.86
## 512                70.29  26    62053.37              231.37
## 513                84.53  33    61922.06              215.18
## 514                59.13  44    49525.37              106.04
## 515                81.51  41    53412.32              250.03
## 516                42.94  37    56681.65              130.40
## 517                84.81  32    43299.63              233.93
## 518                82.79  34    47997.75              132.08
## 519                59.22  55    39131.53              126.39
## 520                35.00  40    46033.73              151.25
## 521                46.61  42    65856.74              136.18
## 522                63.26  29    54787.37              120.46
## 523                79.16  32    69562.46              202.90
## 524                67.94  43    68447.17              128.16
## 525                79.91  32    62772.42              230.18
## 526                66.14  41    78092.95              165.27
## 527                43.65  39    63649.04              138.87
## 528                59.61  21    60637.62              198.45
## 529                46.61  52    27241.11              156.99
## 530                89.37  34    42760.22              162.03
## 531                65.10  49    59457.52              118.10
## 532                53.44  42    42907.89              108.17
## 533                79.53  51    46132.18              244.91
## 534                91.43  39    46964.11              209.91
## 535                73.57  30    70377.23              212.38
## 536                78.76  32    70012.83              208.02
## 537                76.49  23    56457.01              181.11
## 538                61.72  26    67279.06              218.49
## 539                84.53  35    54773.99              236.29
## 540                72.03  34    70783.94              230.95
## 541                77.47  36    70510.59              222.91
## 542                75.65  39    64021.55              247.90
## 543                78.15  33    72042.85              194.37
## 544                63.80  38    36037.33              108.70
## 545                76.59  29    67526.92              211.64
## 546                42.60  55    55121.65              168.29
## 547                78.77  28    63497.62              211.83
## 548                83.40  39    60879.48              235.01
## 549                79.53  33    61467.33              236.72
## 550                73.89  35    70495.64              229.99
## 551                75.80  36    71222.40              224.90
## 552                81.95  31    64698.58              208.76
## 553                56.39  58    32252.38              154.23
## 554                44.73  35    55316.97              127.56
## 555                38.35  33    47447.89              145.48
```

```
## 556                72.53  37    73474.82             223.93
## 557                56.20  49    53549.94             114.85
## 558                79.67  28    58576.12             226.79
## 559                75.42  26    63373.70             164.25
## 560                78.64  31    60283.47             235.28
## 561                67.69  44    37345.34             109.22
## 562                38.35  41    34886.01             144.69
## 563                59.52  44    67511.86             251.08
## 564                62.26  37    77988.71             166.19
## 565                64.75  36    63001.03             117.66
## 566                79.97  26    61747.98             185.45
## 567                47.90  42    48467.68             114.53
## 568                80.38  30    55130.96             238.06
## 569                64.51  42    79484.80             190.71
## 570                71.28  37    67307.43             246.72
## 571                50.32  40    27964.60             125.65
## 572                72.76  33    66431.87             240.63
## 573                72.80  35    63551.67             249.54
## 574                74.59  23    40135.06             158.35
## 575                46.66  45    49101.67             118.16
## 576                48.86  54    53188.69             134.46
## 577                37.05  39    49742.83             142.81
## 578                81.21  36    63394.41             233.04
## 579                66.89  23    64433.99             208.24
## 580                68.11  38    73884.48             231.21
## 581                69.15  46    36424.94             112.72
## 582                65.72  36    28275.48             120.12
## 583                40.04  27    48098.86             161.58
## 584                68.60  33    68448.94             135.08
## 585                56.16  25    66429.84             164.25
## 586                78.60  46    41768.13             254.59
## 587                78.29  38    57844.96             252.07
## 588                43.83  45    35684.82             129.01
## 589                77.31  32    62792.43             238.10
## 590                39.86  28    51171.23             161.24
## 591                66.77  25    58847.07             141.13
## 592                57.20  42    57739.03             110.66
## 593                73.15  25    64631.22             211.12
## 594                82.07  24    50337.93             193.97
## 595                49.84  38    67781.31             135.24
## 596                43.97  36    68863.95             156.97
## 597                77.25  27    55901.12             231.38
## 598                74.84  37    64775.10             246.44
## 599                83.53  36    67686.16             204.56
## 600                38.63  48    57777.11             222.11
## 601                84.00  48    46868.53             136.21
## 602                52.13  50    40926.93             118.27
## 603                71.83  40    22205.74             135.48
## 604                78.36  24    58920.44             196.77
## 605                50.18  35    63006.14             127.82
## 606                64.67  51    24316.61             138.35
## 607                69.50  26    68348.99             203.84
## 608                65.22  30    66263.37             240.09
## 609                62.06  40    63493.60             116.27
```

```
## 610  84.29  30  56984.09  160.33
## 611  32.91  37  51691.55  181.02
## 612  39.50  31  49911.25  148.19
## 613  75.19  31  33502.57  245.76
## 614  76.21  31  65834.97  228.94
## 615  67.76  31  66176.97  242.59
## 616  40.01  53  51463.17  161.77
## 617  52.70  41  41059.64  109.34
## 618  68.41  38  61428.18  259.76
## 619  35.55  39  51593.46  151.18
## 620  74.54  24  57518.73  219.75
## 621  81.75  24  52656.13  190.08
## 622  87.85  31  52178.98  210.27
## 623  60.23  60  46239.14  151.54
## 624  87.97  35  48918.55  149.25
## 625  78.17  27  65227.79  192.27
## 626  67.91  23  55002.05  146.80
## 627  85.77  27  52261.73  191.78
## 628  41.16  49  59448.44  150.83
## 629  53.54  39  47314.45  108.03
## 630  73.94  26  55411.06  236.15
## 631  63.43  29  66504.16  236.75
## 632  84.59  36  47169.14  241.80
## 633  70.13  31  70889.68  224.98
## 634  40.19  37  55358.88  136.99
## 635  58.95  55  56242.70  131.29
## 636  35.76  51  45522.44  195.07
## 637  59.36  49  46931.03  110.84
## 638  91.10  40  55499.69  198.13
## 639  61.04  41  75805.12  149.21
## 640  74.06  23  40345.49  225.99
## 641  64.63  45  15598.29  158.80
## 642  81.29  28  33239.20  219.72
## 643  76.07  36  68033.54  235.56
## 644  75.92  22  38427.66  182.65
## 645  78.35  46  53185.34  253.48
## 646  46.14  28  39723.97  137.97
## 647  44.33  41  43386.07  120.63
## 648  46.43  28  53922.43  137.20
## 649  66.04  27  71881.84  199.76
## 650  84.31  29  47139.21  225.87
## 651  83.66  38  68877.02  175.14
## 652  81.25  33  65186.58  222.35
## 653  85.26  32  55424.24  224.07
## 654  86.53  46  46500.11  233.36
## 655  76.44  26  58820.16  224.20
## 656  52.84  43  28495.21  122.31
## 657  85.24  31  61840.26  182.84
## 658  74.71  46  37908.29  258.06
## 659  82.95  39  69805.70  201.29
## 660  76.42  26  60315.19  223.16
## 661  42.04  49  67323.00  182.11
## 662  46.28  26  50055.33  228.78
## 663  48.26  50  43573.66  122.45
```

```
## 664                71.03  55    28186.65              150.77
## 665                81.37  33    66412.04              215.04
## 666                58.05  32    15879.10              195.54
## 667                75.00  29    63965.16              230.36
## 668                79.61  31    58342.63              235.97
## 669                52.56  31    33147.19              250.36
## 670                62.18  33    65899.68              126.44
## 671                77.89  26    64188.50              201.54
## 672                66.08  61    58966.22              184.23
## 673                89.21  33    44078.24              210.53
## 674                49.96  55    60968.62              151.94
## 675                77.44  28    65620.25              210.39
## 676                82.58  38    65496.78              225.23
## 677                39.36  29    52462.04              161.79
## 678                47.23  38    70582.55              149.80
## 679                87.85  34    51816.27              153.01
## 680                65.57  46    23410.75              130.86
## 681                78.01  26    62729.40              200.71
## 682                44.15  28    48867.67              141.96
## 683                43.57  36    50971.73              125.20
## 684                76.83  28    67990.84              192.81
## 685                42.06  34    43241.19              131.55
## 686                76.27  27    60082.66              226.69
## 687                74.27  37    65180.97              247.05
## 688                73.27  28    67301.39              216.24
## 689                74.58  36    70701.31              230.52
## 690                77.50  28    60997.84              225.34
## 691                87.16  33    60805.93              197.15
## 692                87.16  37    50711.68              231.95
## 693                66.26  47    14548.06              179.04
## 694                65.15  29    41335.84              117.30
## 695                68.25  33    76480.16              198.86
## 696                73.49  38    67132.46              244.23
## 697                39.19  54    52581.16              173.05
## 698                80.15  25    55195.61              214.49
## 699                86.76  28    48679.54              189.91
## 700                73.88  29    63109.74              233.61
## 701                58.60  19    44490.09              197.93
## 702                69.77  54    57667.99              132.27
## 703                87.27  30    51824.01              204.27
## 704                77.65  28    66198.66              208.01
## 705                76.02  40    73174.19              219.55
## 706                78.84  26    56593.80              217.66
## 707                71.33  23    31072.44              169.40
## 708                81.90  41    66773.83              225.47
## 709                46.89  48    72553.94              176.78
## 710                77.80  57    43708.88              152.94
## 711                45.44  43    48453.55              119.27
## 712                69.96  31    73413.87              214.06
## 713                87.35  35    58114.30              158.29
## 714                49.42  53    45465.25              128.00
## 715                71.27  21    50147.72              216.03
## 716                49.19  38    61004.51              123.08
## 717                39.96  35    53898.89              138.52
```

```
## 718  85.01  29  59797.64  192.50
## 719  68.95  51  74623.27  185.85
## 720  67.59  45  58677.69  113.69
## 721  75.71  34  62109.80  246.06
## 722  43.07  36  60583.02  137.63
## 723  39.47  43  65576.05  163.48
## 724  48.22  40  73882.91  214.33
## 725  76.76  25  50468.36  230.77
## 726  78.74  27  51409.45  234.75
## 727  67.47  24  60514.05  225.05
## 728  81.17  30  57195.96  231.91
## 729  89.66  34  52802.58  171.23
## 730  79.60  28  56570.06  227.37
## 731  65.53  19  51049.47  190.17
## 732  61.87  35  66629.61  250.20
## 733  83.16  41  70185.06  194.95
## 734  44.11  41  43111.41  121.24
## 735  56.57  26  56435.60  131.98
## 736  83.91  29  53223.58  222.87
## 737  79.80  28  57179.91  229.88
## 738  71.23  52  41521.28  122.59
## 739  47.23  43  73538.09  210.87
## 740  82.37  30  63664.32  207.44
## 741  43.63  38  61757.12  135.25
## 742  70.90  28  71727.51  190.95
## 743  71.90  29  72203.96  193.29
## 744  62.12  37  50671.60  105.86
## 745  67.35  29  47510.42  118.69
## 746  57.99  50  62466.10  124.58
## 747  66.80  29  59683.16  248.51
## 748  49.13  32  41097.17  120.49
## 749  45.11  58  39799.73  195.69
## 750  54.35  42  76984.21  164.02
## 751  61.82  59  57877.15  151.93
## 752  77.75  31  59047.91  240.64
## 753  70.61  28  72154.68  190.12
## 754  82.72  31  65704.79  179.82
## 755  76.87  36  72948.76  212.59
## 756  65.07  34  73941.91  227.53
## 757  56.93  37  57887.64  111.80
## 758  48.86  35  62463.70  128.37
## 759  36.56  29  42838.29  195.89
## 760  85.73  32  43778.88  147.75
## 761  75.81  40  71157.05  229.19
## 762  72.94  31  74159.69  190.84
## 763  53.63  54  50333.72  126.29
## 764  52.35  25  33293.78  147.61
## 765  52.84  51  38641.20  121.57
## 766  51.58  33  49822.78  115.91
## 767  42.32  29  63891.29  187.09
## 768  55.04  42  43881.73  106.96
## 769  68.58  41  13996.50  171.54
## 770  85.54  27  48761.14  175.43
## 771  71.14  30  69758.31  224.82
```

```
## 772                64.38  19    52530.10             180.47
## 773                88.85  40    58363.12             213.96
## 774                66.79  60    60575.99             198.30
## 775                32.60  45    48206.04             185.47
## 776                43.88  54    31523.09             166.85
## 777                56.46  26    66187.58             151.63
## 778                72.18  30    69438.04             225.02
## 779                52.67  44    14775.50             191.26
## 780                80.55  35    68016.90             219.91
## 781                67.85  41    78520.99             202.70
## 782                75.55  36    31998.72             123.71
## 783                80.46  29    56909.30             230.78
## 784                82.69  29    61161.29             167.41
## 785                35.21  39    52340.10             154.00
## 786                36.37  40    47338.94             144.53
## 787                74.07  22    50950.24             165.43
## 788                59.96  33    77143.61             197.66
## 789                85.62  29    57032.36             195.68
## 790                40.88  33    48554.45             136.18
## 791                36.98  31    39552.49             167.87
## 792                35.49  47    36884.23             170.04
## 793                56.56  26    68783.45             204.47
## 794                36.62  32    51119.93             162.44
## 795                49.35  49    44304.13             119.86
## 796                75.64  29    69718.19             204.82
## 797                79.22  27    63429.18             198.79
## 798                77.05  34    65756.36             236.08
## 799                66.83  46    77871.75             196.17
## 800                76.20  24    47258.59             228.81
## 801                56.64  29    55984.89             123.24
## 802                53.33  34    44275.13             111.63
## 803                50.63  50    25767.16             142.23
## 804                41.84  49    37605.11             139.32
## 805                53.92  41    25739.09             125.46
## 806                83.89  28    60188.38             180.88
## 807                55.32  43    67682.32             127.65
## 808                53.22  44    44307.18             108.85
## 809                43.16  35    25371.52             156.11
## 810                67.51  43    23942.61             127.20
## 811                43.16  29    50666.50             143.04
## 812                79.89  30    50356.06             241.38
## 813                84.25  32    63936.50             170.90
## 814                74.18  28    69874.18             203.87
## 815                85.78  34    50038.65             232.78
## 816                80.96  39    67866.95             225.00
## 817                36.91  48    54645.20             159.69
## 818                54.47  23    46780.09             141.52
## 819                81.98  34    67432.49             212.88
## 820                79.60  39    73392.28             194.23
## 821                57.51  38    47682.28             105.71
## 822                82.30  31    56735.83             232.21
## 823                73.21  30    51013.37             252.60
## 824                79.09  32    69481.85             209.72
## 825                68.47  28    67033.34             226.64
```

```
## 826                83.69  36    68717.00             192.57
## 827                83.48  31    59340.99             222.72
## 828                43.49  45    47968.32             124.67
## 829                66.69  35    48758.92             108.27
## 830                48.46  49    61230.03             132.38
## 831                42.51  30    54755.71             144.77
## 832                42.83  34    54324.73             132.38
## 833                41.46  42    52177.40             128.98
## 834                45.99  33    51163.14             124.61
## 835                68.72  27    66861.67             225.97
## 836                63.11  34    63107.88             254.94
## 837                49.21  46    49206.40             115.60
## 838                55.77  49    55942.04             117.33
## 839                44.13  40    33601.84             128.48
## 840                57.82  46    48867.36             107.56
## 841                72.46  40    56683.32             113.53
## 842                61.88  45    38260.89             108.18
## 843                78.24  23    54106.21             199.29
## 844                74.61  38    71055.22             231.28
## 845                89.18  37    46403.18             224.01
## 846                44.16  42    61690.93             133.42
## 847                55.74  37    26130.93             124.34
## 848                88.82  36    58638.75             169.10
## 849                70.39  32    47357.39             261.52
## 850                59.05  52    50086.17             118.45
## 851                78.58  33    51772.58             250.11
## 852                35.11  35    47638.30             158.03
## 853                60.39  45    38987.42             108.25
## 854                81.56  26    51363.16             213.70
## 855                75.03  34    35764.49             255.57
## 856                50.87  24    62939.50             190.41
## 857                82.80  30    58776.67             223.20
## 858                78.51  25    59106.12             205.71
## 859                37.65  51    50457.01             161.29
## 860                83.17  43    54251.78             244.40
## 861                91.37  45    51920.49             182.65
## 862                68.25  29    70324.80             220.08
## 863                81.32  25    52416.18             165.65
## 864                76.64  39    66217.31             241.50
## 865                74.06  50    60938.73             246.29
## 866                39.53  33    40243.82             142.21
## 867                86.58  32    60151.77             195.93
## 868                90.75  40    45945.88             216.50
## 869                67.71  25    63430.33             225.76
## 870                82.41  36    65882.81             222.08
## 871                45.82  27    64410.80             171.24
## 872                76.79  27    55677.12             235.94
## 873                70.05  33    75560.65             203.44
## 874                72.19  32    61067.58             250.32
## 875                77.35  34    72330.57             167.26
## 876                40.34  29    32549.95             173.75
## 877                67.39  44    51257.26             107.19
## 878                68.68  34    77220.42             187.03
## 879                81.75  43    52520.75             249.45
```

```
## 880  66.03  22  59422.47  217.37
## 881  47.74  33  22456.04  154.93
## 882  79.18  31  58443.99  236.96
## 883  86.81  29  50820.74  199.62
## 884  41.53  42  67575.12  158.81
## 885  70.92  39  66522.79  249.81
## 886  46.84  45  34903.67  123.22
## 887  44.40  53  43073.78  140.95
## 888  52.17  44  57594.70  115.37
## 889  81.45  31  66027.31  205.84
## 890  54.08  36  53012.94  111.02
## 891  76.65  31  61117.50  238.43
## 892  54.39  20  52563.22  171.90
## 893  37.74  40  65773.49  190.95
## 894  69.86  25  50506.44  241.36
## 895  85.37  36  66262.59  194.56
## 896  80.99  26  35521.88  207.53
## 897  78.84  32  62430.55  235.29
## 898  77.36  41  49597.08  115.79
## 899  55.46  37  42078.89  108.10
## 900  35.66  45  46197.59  151.72
## 901  50.78  51  49957.00  122.04
## 902  40.47  38  24078.93  203.90
## 903  45.62  43  53647.81  121.28
## 904  84.76  30  61039.13  178.69
## 905  80.64  26  46974.15  221.59
## 906  75.94  27  53042.51  236.96
## 907  37.01  50  48826.14  216.01
## 908  87.18  31  58287.86  193.60
## 909  56.91  50  21773.22  146.44
## 910  75.24  24  52252.91  226.49
## 911  42.84  52  27073.27  182.20
## 912  67.56  47  50628.31  109.98
## 913  34.96  42  36913.51  160.49
## 914  87.46  37  61009.10  211.56
## 915  41.86  39  53041.77  128.62
## 916  34.04  34  40182.84  174.88
## 917  54.96  42  59419.78  113.75
## 918  87.14  31  58235.21  199.40
## 919  78.79  32  68324.48  215.29
## 920  65.56  25  69646.35  181.25
## 921  81.05  34  54045.39  245.50
## 922  55.71  37  57806.03  112.52
## 923  45.48  49  53336.76  129.16
## 924  47.00  56  50491.45  149.53
## 925  59.64  51  71455.62  153.12
## 926  35.98  45  43241.88  150.79
## 927  72.55  22  58953.01  202.34
## 928  91.15  38  36834.04  184.98
## 929  80.53  29  66345.10  187.64
## 930  82.49  45  38645.40  130.84
## 931  80.94  36  60803.00  239.94
## 932  61.76  34  33553.90  114.69
## 933  63.30  38  63071.34  116.19
```

```
## 934                36.73  34    46737.34            149.79
## 935                78.41  33    55368.67            248.23
## 936                83.98  36    68305.91            194.62
## 937                63.18  45    39211.49            107.92
## 938                50.60  48    65956.71            135.67
## 939                32.60  38    40159.20            190.05
## 940                60.83  19    40478.83            185.46
## 941                44.72  46    40468.53            123.86
## 942                78.76  51    66980.27            162.05
## 943                79.51  39    34942.26            125.11
## 944                39.30  32    48335.20            145.73
## 945                64.79  30    42251.59            116.07
## 946                89.80  36    57330.43            198.24
## 947                72.82  34    75769.82            191.82
## 948                38.65  31    51812.71            154.77
## 949                59.01  30    75265.96            178.75
## 950                78.96  50    69868.48            193.15
## 951                63.99  43    72802.42            138.46
## 952                41.35  27    39193.45            162.46
## 953                62.79  36    18368.57            231.87
## 954                45.53  29    56129.89            141.58
## 955                51.65  31    58996.56            249.99
## 956                54.55  44    41547.62            109.04
## 957                35.66  36    59240.24            172.57
## 958                69.95  28    56725.47            247.01
## 959                79.83  29    55764.43            234.23
## 960                85.35  37    64235.51            161.42
## 961                56.78  28    39939.39            124.32
## 962                78.67  26    63319.99            195.56
## 963                70.09  21    54725.87            211.17
## 964                60.75  42    69775.75            247.05
## 965                65.07  24    57545.56            233.85
## 966                35.25  50    47051.02            194.44
## 967                37.58  52    51600.47            176.70
## 968                68.01  25    68357.96            188.32
## 969                45.08  38    35349.26            125.27
## 970                63.04  27    69784.85            159.05
## 971                40.18  29    50760.23            151.96
## 972                45.17  48    34418.09            132.07
## 973                50.48  50    20592.99            162.43
## 974                80.87  28    63528.80            203.30
## 975                41.88  40    44217.68            126.11
## 976                39.87  48    47929.83            139.34
## 977                61.84  45    46024.29            105.63
## 978                54.97  31    51900.03            116.38
## 979                71.40  30    72188.90            166.31
## 980                70.29  31    56974.51            254.65
## 981                67.26  57    25682.65            168.41
## 982                76.58  46    41884.64            258.26
## 983                54.37  38    72196.29            140.77
## 984                82.79  32    54429.17            234.81
## 985                66.47  31    58037.66            256.39
## 986                72.88  44    64011.26            125.12
## 987                76.44  28    59967.19            232.68
```

```
## 988                   63.37  43    43155.19              105.04
## 989                   89.71  48    51501.38              204.40
## 990                   70.96  31    55187.85              256.40
## 991                   35.79  44    33813.08              165.62
## 992                   38.96  38    36497.22              140.67
## 993                   69.17  40    66193.81              123.62
## 994                   64.20  27    66200.96              227.63
## 995                   43.70  28    63126.96              173.01
## 996                   72.97  30    71384.57              208.58
## 997                   51.30  45    67782.17              134.42
## 998                   51.63  51    42415.72              120.37
## 999                   55.55  19    41920.79              187.95
## 1000                  45.01  26    29875.80              178.35
##                                                 Ad.Topic.Line
## 1                        Cloned 5thgeneration orchestration
## 2                        Monitored national standardization
## 3                          Organic bottom-line service-desk
## 4                  Triple-buffered reciprocal time-frame
## 5                          Robust logistical utilization
## 6                       Sharable client-driven software
## 7                            Enhanced dedicated support
## 8                              Reactive local challenge
## 9                         Configurable coherent function
## 10                     Mandatory homogeneous architecture
## 11                         Centralized neutral neural-net
## 12            Team-oriented grid-enabled Local Area Network
## 13                  Centralized content-based focus group
## 14                       Synergistic fresh-thinking array
## 15                         Grass-roots coherent extranet
## 16                    Persistent demand-driven interface
## 17                    Customizable multi-tasking website
## 18                           Intuitive dynamic attitude
## 19             Grass-roots solution-oriented conglomeration
## 20                           Advanced 24/7 productivity
## 21                  Object-based reciprocal knowledgebase
## 22                      Streamlined non-volatile analyzer
## 23                  Mandatory disintermediate utilization
## 24                     Future-proofed methodical protocol
## 25                          Exclusive neutral parallelism
## 26                        Public-key foreground groupware
## 27                     Ameliorated client-driven forecast
## 28                         Monitored systematic hierarchy
## 29                Open-architected impactful productivity
## 30                Business-focused value-added definition
## 31                 Programmable asymmetric data-warehouse
## 32                           Digitized static capability
## 33                           Digitized global capability
## 34              Multi-layered 4thgeneration knowledge user
## 35                     Synchronized dedicated service-desk
## 36                         Synchronized systemic hierarchy
## 37                                 Profound stable product
## 38                        Reactive demand-driven capacity
## 39                Persevering needs-based open architecture
## 40                           Intuitive exuding service-desk
```

```
## 41                          Innovative user-facing extranet
## 42                        Front-line intermediate database
## 43                       Persevering exuding system engine
## 44                            Balanced dynamic application
## 45                                  Reduced global support
## 46                         Organic leadingedge secured line
## 47                  Business-focused encompassing neural-net
## 48                    Triple-buffered demand-driven alliance
## 49                  Visionary maximized process improvement
## 50                            Centralized 24/7 installation
## 51                             Organized static focus group
## 52                             Visionary reciprocal circuit
## 53                         Pre-emptive value-added workforce
## 54                               Sharable analyzing alliance
## 55                         Team-oriented encompassing portal
## 56                             Sharable bottom-line solution
## 57                              Cross-group regional website
## 58                                    Organized global model
## 59                          Upgradable asynchronous circuit
## 60                       Phased transitional instruction set
## 61                       Customer-focused empowering ability
## 62                       Front-line heuristic data-warehouse
## 63                             Stand-alone national attitude
## 64                              Focused upward-trending core
## 65                       Streamlined cohesive conglomeration
## 66                             Upgradable optimizing toolset
## 67                             Synchronized user-facing core
## 68                          Organized client-driven alliance
## 69                           Ergonomic multi-state structure
## 70                           Synergized multimedia emulation
## 71                    Customer-focused optimizing moderator
## 72                            Advanced full-range migration
## 73                  De-engineered object-oriented protocol
## 74           Polarized clear-thinking budgetary management
## 75               Customizable 6thgeneration knowledge user
## 76                      Seamless object-oriented structure
## 77                                 Seamless real-time array
## 78                      Grass-roots impactful system engine
## 79                               Devolved tangible approach
## 80                          Customizable executive software
## 81                           Progressive analyzing attitude
## 82                             Innovative executive encoding
## 83                        Down-sized uniform info-mediaries
## 84              Streamlined next generation implementation
## 85                       Distributed tertiary system engine
## 86                       Triple-buffered scalable groupware
## 87                             Total 5thgeneration encoding
## 88                       Integrated human-resource encoding
## 89                          Phased dynamic customer loyalty
## 90                              Open-source coherent policy
## 91                              Down-sized modular intranet
## 92                    Pre-emptive content-based focus group
## 93                    Versatile 4thgeneration system engine
## 94                          Ergonomic full-range time-frame
```

```
## 95                          Automated directional function
## 96                        Progressive empowering alliance
## 97                         Versatile homogeneous capacity
## 98                      Function-based optimizing protocol
## 99                             Up-sized secondary software
## 100                          Seamless holistic time-frame
## 101                       Persevering reciprocal firmware
## 102                   Centralized logistical secured line
## 103                 Innovative background conglomeration
## 104                         Switchable 3rdgeneration hub
## 105               Polarized 6thgeneration info-mediaries
## 106                          Balanced heuristic approach
## 107                       Focused 24hour implementation
## 108                  De-engineered mobile infrastructure
## 109           Customer-focused upward-trending contingency
## 110                   Operative system-worthy protocol
## 111             User-friendly upward-trending intranet
## 112             Future-proofed holistic superstructure
## 113                          Extended systemic policy
## 114                       Horizontal hybrid challenge
## 115                           Virtual composite model
## 116                       Switchable mobile framework
## 117                      Focused intangible moderator
## 118                      Balanced actuating moderator
## 119             Customer-focused transitional strategy
## 120               Advanced web-enabled standardization
## 121                Pre-emptive executive knowledgebase
## 122          Self-enabling holistic process improvement
## 123                  Horizontal client-driven hierarchy
## 124                        Polarized dynamic throughput
## 125               Devolved zero administration intranet
## 126             User-friendly asymmetric info-mediaries
## 127                  Cross-platform regional task-force
## 128            Polarized bandwidth-monitored moratorium
## 129                 Centralized systematic knowledgebase
## 130          Future-proofed grid-enabled implementation
## 131                   Down-sized well-modulated archive
## 132                  Realigned zero tolerance emulation
## 133                   Versatile transitional monitoring
## 134          Profound zero administration instruction set
## 135                    User-centric intangible task-force
## 136                    Enhanced system-worthy application
## 137                    Multi-layered user-facing paradigm
## 138                        Customer-focused 24/7 concept
## 139             Function-based transitional complexity
## 140          Progressive clear-thinking open architecture
## 141                        Up-sized executive moderator
## 142             Re-contextualized optimal service-desk
## 143             Fully-configurable neutral open system
## 144                    Upgradable system-worthy array
## 145                Ergonomic client-driven application
## 146                   Realigned content-based leverage
## 147                    Decentralized real-time circuit
## 148                         Polarized modular function
```

```
## 149               Enterprise-wide client-driven contingency
## 150                                 Diverse modular interface
## 151                               Polarized analyzing concept
## 152              Multi-channeled asynchronous open system
## 153           Function-based context-sensitive secured line
## 154                       Adaptive 24hour Graphic Interface
## 155                          Automated coherent flexibility
## 156                             Focused scalable complexity
## 157                          Up-sized incremental encryption
## 158                     Sharable dedicated Graphic Interface
## 159                   Digitized zero administration paradigm
## 160                     Managed grid-enabled standardization
## 161                          Networked foreground definition
## 162                              Re-engineered exuding frame
## 163                         Horizontal multi-state interface
## 164                                  Diverse stable circuit
## 165                            Universal 24/7 implementation
## 166         Customer-focused multi-tasking Internet solution
## 167              Vision-oriented contextually-based extranet
## 168                               Extended local methodology
## 169                   Re-engineered demand-driven capacity
## 170       Customer-focused attitude-oriented instruction set
## 171                            Synergized hybrid time-frame
## 172                          Advanced exuding conglomeration
## 173                        Secured clear-thinking middleware
## 174                       Right-sized value-added initiative
## 175                  Centralized tertiary pricing structure
## 176       Multi-channeled reciprocal artificial intelligence
## 177                   Synergized context-sensitive database
## 178                            Realigned systematic function
## 179                  Adaptive context-sensitive application
## 180                          Networked high-level structure
## 181                     Profit-focused dedicated utilization
## 182                           Stand-alone tangible moderator
## 183                        Polarized tangible collaboration
## 184                       Focused high-level conglomeration
## 185                     Advanced modular Local Area Network
## 186                           Virtual scalable secured line
## 187                      Front-line fault-tolerant intranet
## 188                      Inverse asymmetric instruction set
## 189                      Synchronized leadingedge help-desk
## 190                     Total 5thgeneration standardization
## 191                             Sharable grid-enabled matrix
## 192                          Balanced asynchronous hierarchy
## 193             Monitored object-oriented Graphic Interface
## 194                Cloned analyzing artificial intelligence
## 195                          Persistent homogeneous framework
## 196                          Face-to-face even-keeled website
## 197                    Extended context-sensitive monitoring
## 198                             Exclusive client-driven model
## 199                           Profound executive flexibility
## 200                          Reduced bi-directional strategy
## 201                             Digitized heuristic solution
## 202                       Seamless 4thgeneration contingency
```

```
## 203                        Seamless intangible secured line
## 204                              Intuitive radical forecast
## 205      Multi-layered non-volatile Graphical User Interface
## 206              User-friendly client-server instruction set
## 207                            Synchronized multimedia model
## 208                       Face-to-face intermediate approach
## 209                           Assimilated fault-tolerant hub
## 210                     Exclusive disintermediate task-force
## 211                           Managed zero tolerance concept
## 212                             Compatible systemic function
## 213                  Configurable fault-tolerant monitoring
## 214                        Future-proofed coherent hardware
## 215                  Ameliorated upward-trending definition
## 216                            Front-line tangible alliance
## 217                             Progressive 24hour forecast
## 218                       Self-enabling optimal initiative
## 219         Configurable logistical Graphical User Interface
## 220                  Virtual bandwidth-monitored initiative
## 221                   Multi-tiered human-resource structure
## 222                 Managed upward-trending instruction set
## 223                        Cloned object-oriented benchmark
## 224                  Fundamental fault-tolerant neural-net
## 225                     Phased zero administration success
## 226                  Compatible intangible customer loyalty
## 227                    Distributed 3rdgeneration definition
## 228               Pre-emptive cohesive budgetary management
## 229                    Configurable multi-state utilization
## 230                       Diverse multi-tasking parallelism
## 231                        Horizontal content-based synergy
## 232                          Multi-tiered maximized archive
## 233                             Diverse executive groupware
## 234                               Synergized cohesive array
## 235                            Versatile dedicated software
## 236                          Stand-alone reciprocal synergy
## 237                          Universal even-keeled analyzer
## 238                           Up-sized tertiary contingency
## 239                       Monitored real-time superstructure
## 240                         Streamlined analyzing initiative
## 241                                  Automated static concept
## 242                               Operative stable moderator
## 243                        Up-sized 6thgeneration moratorium
## 244                             Expanded clear-thinking core
## 245              Polarized attitude-oriented superstructure
## 246                           Networked coherent interface
## 247                          Enhanced homogeneous moderator
## 248                             Seamless full-range website
## 249              Profit-focused attitude-oriented task-force
## 250                      Cross-platform multimedia algorithm
## 251                          Open-source coherent monitoring
## 252                       Streamlined logistical secured line
## 253                            Synchronized stable complexity
## 254                         Synergistic value-added extranet
## 255                       Progressive non-volatile neural-net
## 256                           Persevering tertiary capability
```

```
## 257              Enterprise-wide bi-directional secured line
## 258           Organized contextually-based customer loyalty
## 259                              Total directional approach
## 260                        Programmable uniform productivity
## 261                              Robust transitional ability
## 262                    De-engineered fault-tolerant database
## 263                         Managed disintermediate matrices
## 264                      Configurable bottom-line application
## 265                  Self-enabling didactic pricing structure
## 266                              Versatile scalable encryption
## 267                  Proactive next generation knowledge user
## 268                              Customizable tangible hierarchy
## 269                              Visionary asymmetric encryption
## 270                           Intuitive explicit conglomeration
## 271                         Business-focused real-time toolset
## 272                    Organic contextually-based focus group
## 273                         Right-sized asynchronous website
## 274                         Advanced 5thgeneration capability
## 275                              Universal asymmetric archive
## 276                              Devolved responsive structure
## 277                           Triple-buffered regional toolset
## 278                        Object-based executive productivity
## 279                        Business-focused responsive website
## 280                              Visionary analyzing structure
## 281       De-engineered solution-oriented open architecture
## 282                    Customizable modular Internet solution
## 283                       Stand-alone encompassing throughput
## 284                           Customizable zero-defect matrix
## 285                      Managed well-modulated collaboration
## 286                                Universal global intranet
## 287                           Re-engineered real-time success
## 288                     Front-line fresh-thinking open system
## 289                     Digitized contextually-based product
## 290                              Organic interactive support
## 291                            Function-based stable alliance
## 292                             Reactive responsive emulation
## 293                          Exclusive zero tolerance alliance
## 294                             Enterprise-wide local matrices
## 295                        Inverse next generation moratorium
## 296                          Implemented bifurcated workforce
## 297                          Persevering even-keeled help-desk
## 298                   Grass-roots eco-centric instruction set
## 299  Fully-configurable incremental Graphical User Interface
## 300                                  Expanded radical software
## 301                          Mandatory 3rdgeneration moderator
## 302                       Enterprise-wide foreground emulation
## 303                Customer-focused incremental system engine
## 304                        Right-sized multi-tasking solution
## 305                     Vision-oriented optimizing middleware
## 306                       Proactive context-sensitive project
## 307                              Managed eco-centric encoding
## 308                          Visionary multi-tasking alliance
## 309                            Ameliorated tangible hierarchy
## 310                                Extended interactive model
```

```
## 311                       Universal bi-directional extranet
## 312                               Enhanced maximized access
## 313                        Upgradable even-keeled challenge
## 314                     Synchronized national infrastructure
## 315                   Re-contextualized systemic time-frame
## 316                        Horizontal national architecture
## 317                       Reactive bi-directional workforce
## 318                       Horizontal transitional challenge
## 319                           Re-engineered neutral success
## 320                 Adaptive contextually-based methodology
## 321                           Configurable dynamic adapter
## 322                     Multi-lateral empowering throughput
## 323                     Fundamental zero tolerance solution
## 324                         Proactive asymmetric definition
## 325            Pre-emptive zero tolerance Local Area Network
## 326                  Self-enabling incremental collaboration
## 327                         Exclusive even-keeled moratorium
## 328                         Reduced incremental productivity
## 329                       Realigned scalable standardization
## 330                  Secured scalable Graphical User Interface
## 331             Team-oriented context-sensitive installation
## 332              Pre-emptive systematic budgetary management
## 333             Fully-configurable high-level implementation
## 334                           Profound maximized workforce
## 335                Cross-platform 4thgeneration focus group
## 336                  Optional mission-critical functionalities
## 337                        Multi-layered tangible portal
## 338                             Reduced mobile structure
## 339                  Enhanced zero tolerance Graphic Interface
## 340                       De-engineered tertiary secured line
## 341             Reverse-engineered well-modulated capability
## 342                     Integrated coherent pricing structure
## 343                      Realigned next generation projection
## 344                      Reactive needs-based instruction set
## 345                     User-friendly well-modulated leverage
## 346                       Function-based fault-tolerant model
## 347                        Decentralized needs-based analyzer
## 348                               Phased analyzing emulation
## 349          Multi-layered fresh-thinking process improvement
## 350                    Upgradable directional system engine
## 351                      Persevering eco-centric flexibility
## 352                                       Inverse local hub
## 353            Triple-buffered needs-based Local Area Network
## 354                       Centralized multi-state hierarchy
## 355                    Public-key non-volatile implementation
## 356                             Synergized coherent interface
## 357                             Horizontal high-level concept
## 358                                Reduced multimedia project
## 359                     Object-based modular functionalities
## 360                       Polarized multimedia system engine
## 361                           Versatile reciprocal structure
## 362                     Upgradable multi-tasking initiative
## 363                Configurable tertiary budgetary management
## 364                           Adaptive asynchronous attitude
```

```
## 365                Face-to-face mission-critical definition
## 366                 Inverse zero tolerance customer loyalty
## 367                              Centralized 24hour synergy
## 368                   Face-to-face analyzing encryption
## 369                  Self-enabling even-keeled methodology
## 370                     Function-based optimizing extranet
## 371                          Organic asynchronous hierarchy
## 372                  Automated client-driven orchestration
## 373                        Public-key zero-defect analyzer
## 374                   Proactive client-server productivity
## 375                            Cloned incremental matrices
## 376               Open-architected system-worthy task-force
## 377                        Devolved regional moderator
## 378                      Balanced value-added database
## 379                Seamless composite budgetary management
## 380                           Total cohesive moratorium
## 381                    Integrated motivating neural-net
## 382                      Exclusive zero tolerance frame
## 383                        Operative scalable emulation
## 384                    Enhanced asymmetric installation
## 385                  Face-to-face reciprocal methodology
## 386                      Robust responsive collaboration
## 387                             Polarized logistical hub
## 388                    Intuitive zero-defect framework
## 389                         Reactive composite project
## 390                    Upgradable even-keeled hardware
## 391                    Future-proofed responsive matrix
## 392                   Programmable empowering middleware
## 393                      Robust dedicated system engine
## 394                    Public-key mission-critical core
## 395                    Operative actuating installation
## 396               Self-enabling asynchronous knowledge user
## 397                                Configurable 24/7 hub
## 398                    Versatile responsive knowledge user
## 399                           Managed impactful definition
## 400                   Grass-roots 4thgeneration forecast
## 401                Focused 3rdgeneration pricing structure
## 402                     Mandatory dedicated data-warehouse
## 403                           Proactive radical support
## 404                  Re-engineered responsive definition
## 405                      Profound optimizing utilization
## 406                           Cloned explicit middleware
## 407                Multi-channeled mission-critical success
## 408                       Versatile content-based protocol
## 409                       Seamless cohesive conglomeration
## 410                     De-engineered actuating hierarchy
## 411                        Balanced motivating help-desk
## 412                        Inverse high-level capability
## 413                  Cross-platform client-server hierarchy
## 414                           Sharable optimal capacity
## 415                        Face-to-face multimedia success
## 416           Enterprise-wide incremental Internet solution
## 417                        Advanced systemic productivity
## 418                 Customizable mission-critical adapter
```

```
## 419                           Horizontal heuristic synergy
## 420                     Multi-tiered multi-state moderator
## 421                 Re-contextualized reciprocal interface
## 422                  Organized demand-driven knowledgebase
## 423                                   Total local synergy
## 424              User-friendly bandwidth-monitored attitude
## 425           Re-engineered context-sensitive knowledge user
## 426                           Total user-facing hierarchy
## 427           Balanced contextually-based pricing structure
## 428                    Inverse bi-directional knowledge user
## 429                         Networked even-keeled workforce
## 430                   Right-sized transitional parallelism
## 431           Customer-focused system-worthy superstructure
## 432                           Balanced 4thgeneration success
## 433                          Cross-group value-added success
## 434                     Visionary client-driven installation
## 435                 Switchable well-modulated infrastructure
## 436                           Upgradable asymmetric emulation
## 437                         Configurable tertiary capability
## 438                        Monitored dynamic instruction set
## 439                               Robust web-enabled attitude
## 440                  Customer-focused full-range neural-net
## 441          Universal transitional Graphical User Interface
## 442                      User-centric intangible contingency
## 443                 Configurable disintermediate throughput
## 444                          Automated web-enabled migration
## 445                  Triple-buffered 3rdgeneration migration
## 446              Universal contextually-based system engine
## 447                                 Optional secondary access
## 448                      Quality-focused scalable utilization
## 449                            Team-oriented dynamic forecast
## 450                             Horizontal heuristic support
## 451         Customer-focused zero-defect process improvement
## 452                               Focused systemic benchmark
## 453                        Seamless impactful info-mediaries
## 454                               Advanced heuristic firmware
## 455        Fully-configurable client-driven customer loyalty
## 456                               Cross-group neutral synergy
## 457                                 Organized 24/7 middleware
## 458                       Networked stable open architecture
## 459                     Customizable systematic service-desk
## 460                  Function-based directional productivity
## 461                                   Networked stable array
## 462                                Phased full-range hardware
## 463                               Organized empowering policy
## 464              Object-based system-worthy superstructure
## 465                               Profound explicit hardware
## 466                  Self-enabling multimedia system engine
## 467                               Polarized analyzing intranet
## 468      Vision-oriented attitude-oriented Internet solution
## 469                        Digitized disintermediate ability
## 470                               Intuitive explicit firmware
## 471                          Public-key real-time definition
## 472                  Monitored content-based implementation
```

```
## 473         Quality-focused zero-defect budgetary management
## 474                        Intuitive fresh-thinking moderator
## 475                        Reverse-engineered 24hour hardware
## 476                      Synchronized zero tolerance product
## 477                             Reactive interactive protocol
## 478                  Focused fresh-thinking Graphic Interface
## 479                              Ameliorated exuding solution
## 480                         Integrated maximized service-desk
## 481                          Self-enabling tertiary challenge
## 482                   Decentralized foreground infrastructure
## 483                              Quality-focused hybrid frame
## 484                            Realigned reciprocal framework
## 485                             Distributed maximized ability
## 486                                Polarized bifurcated array
## 487                          Progressive asynchronous adapter
## 488                      Business-focused high-level hardware
## 489                   Fully-configurable holistic throughput
## 490              Ameliorated contextually-based collaboration
## 491                  Progressive uniform budgetary management
## 492                         Synergistic stable infrastructure
## 493                 Reverse-engineered content-based intranet
## 494                     Expanded zero administration attitude
## 495                      Team-oriented 6thgeneration extranet
## 496                        Managed disintermediate capability
## 497                                  Front-line dynamic model
## 498                               Innovative regional structure
## 499                Function-based incremental standardization
## 500                           Universal asymmetric workforce
## 501                   Business-focused client-driven forecast
## 502                              Realigned global initiative
## 503                     Business-focused maximized complexity
## 504                               Open-source global strategy
## 505                          Stand-alone motivating moratorium
## 506                              Grass-roots multimedia policy
## 507                                 Upgradable local migration
## 508                       Profound bottom-line standardization
## 509                               Managed client-server access
## 510                      Cross-platform directional intranet
## 511                               Horizontal modular success
## 512                     Vision-oriented multi-tasking success
## 513                               Optional multi-state hardware
## 514                          Upgradable heuristic system engine
## 515                          Future-proofed modular utilization
## 516                           Synergistic dynamic orchestration
## 517                               Multi-layered stable encoding
## 518                       Team-oriented zero-defect initiative
## 519                             Polarized 5thgeneration matrix
## 520   Fully-configurable context-sensitive Graphic Interface
## 521                        Progressive intermediate throughput
## 522                             Customizable holistic archive
## 523                           Compatible intermediate concept
## 524                       Assimilated next generation firmware
## 525                         Total zero administration software
## 526                           Re-engineered impactful software
```

```
## 527                    Business-focused background synergy
## 528          Future-proofed coherent budgetary management
## 529                          Ergonomic methodical encoding
## 530                      Compatible dedicated productivity
## 531                         Up-sized real-time methodology
## 532                   Up-sized next generation architecture
## 533                        Managed 6thgeneration hierarchy
## 534                                Organic motivating model
## 535                     Pre-emptive transitional protocol
## 536           Managed attitude-oriented Internet solution
## 537                      Public-key asynchronous matrix
## 538                     Grass-roots systematic hardware
## 539                    User-centric composite contingency
## 540                  Up-sized bi-directional infrastructure
## 541                           Assimilated actuating policy
## 542                 Organized upward-trending contingency
## 543                               Ergonomic neutral portal
## 544                  Adaptive demand-driven knowledgebase
## 545              Reverse-engineered maximized focus group
## 546                        Switchable analyzing encryption
## 547          Public-key intangible Graphical User Interface
## 548                             Advanced local task-force
## 549                       Profound well-modulated array
## 550             Multi-channeled asymmetric installation
## 551             Multi-layered fresh-thinking neural-net
## 552                      Distributed cohesive migration
## 553                        Programmable uniform website
## 554                         Object-based neutral policy
## 555                          Horizontal global leverage
## 556                 Synchronized grid-enabled moratorium
## 557                           Adaptive uniform capability
## 558                       Total grid-enabled application
## 559                         Optional regional throughput
## 560                   Integrated client-server definition
## 561                        Fundamental methodical support
## 562                       Synergistic reciprocal attitude
## 563                     Managed 5thgeneration time-frame
## 564                Vision-oriented uniform knowledgebase
## 565                          Multi-tiered stable leverage
## 566              Down-sized explicit budgetary management
## 567                 Cross-group human-resource time-frame
## 568                   Business-focused holistic benchmark
## 569                      Virtual 5thgeneration neural-net
## 570                   Distributed scalable orchestration
## 571                       Realigned intangible benchmark
## 572                          Virtual impactful algorithm
## 573              Public-key solution-oriented focus group
## 574                          Phased clear-thinking encoding
## 575                Grass-roots mission-critical emulation
## 576                       Proactive encompassing paradigm
## 577                    Automated object-oriented firmware
## 578           User-friendly content-based customer loyalty
## 579                          Universal incremental array
## 580                            Reactive national success
```

```
## 581                          Automated multi-state toolset
## 582                           Managed didactic flexibility
## 583                  Cross-platform neutral system engine
## 584                               Focused high-level frame
## 585                           Seamless motivating approach
## 586                            Enhanced systematic adapter
## 587                  Networked regional Local Area Network
## 588                       Total human-resource flexibility
## 589                   Assimilated homogeneous service-desk
## 590                      Ergonomic zero tolerance encoding
## 591                   Cross-platform zero-defect structure
## 592                         Innovative maximized groupware
## 593                      Face-to-face executive encryption
## 594                      Monitored local Internet solution
## 595                           Phased hybrid superstructure
## 596                  User-friendly grid-enabled analyzer
## 597                       Pre-emptive neutral contingency
## 598                    User-friendly impactful time-frame
## 599        Customizable methodical Graphical User Interface
## 600             Cross-platform logistical pricing structure
## 601                               Inverse discrete extranet
## 602                     Open-source even-keeled database
## 603                           Diverse background ability
## 604           Multi-tiered foreground Graphic Interface
## 605                   Customizable hybrid system engine
## 606                      Horizontal incremental website
## 607                      Front-line systemic capability
## 608                 Fully-configurable foreground solution
## 609                                Digitized radical array
## 610                Team-oriented transitional methodology
## 611           Future-proofed fresh-thinking conglomeration
## 612              Operative multi-tasking Graphic Interface
## 613                               Implemented discrete frame
## 614                        Ameliorated exuding encryption
## 615                      Programmable high-level benchmark
## 616                     Sharable multimedia conglomeration
## 617                Team-oriented high-level orchestration
## 618                       Grass-roots empowering paradigm
## 619                Robust object-oriented Graphic Interface
## 620                          Switchable secondary ability
## 621                Open-architected web-enabled benchmark
## 622                         Compatible scalable emulation
## 623                          Seamless optimal contingency
## 624                       Secured secondary superstructure
## 625                                 Automated mobile model
## 626                  Re-engineered non-volatile neural-net
## 627                   Implemented disintermediate attitude
## 628                   Configurable interactive contingency
## 629                         Optimized systemic capability
## 630                Front-line non-volatile implementation
## 631                               Ergonomic 24/7 solution
## 632           Integrated grid-enabled budgetary management
## 633                        Profit-focused systemic support
## 634                      Right-sized system-worthy project
```

```
## 635            Proactive actuating Graphical User Interface
## 636                        Versatile optimizing projection
## 637                    Universal multi-state system engine
## 638                          Secured intermediate approach
## 639                   Operative didactic Local Area Network
## 640                          Phased content-based middleware
## 641           Triple-buffered high-level Internet solution
## 642      Synergized well-modulated Graphical User Interface
## 643                Implemented bottom-line implementation
## 644                Monitored context-sensitive initiative
## 645                 Pre-emptive client-server open system
## 646              Seamless bandwidth-monitored knowledge user
## 647                              Ergonomic empowering frame
## 648         Reverse-engineered background Graphic Interface
## 649                       Synergistic non-volatile analyzer
## 650                           Object-based optimal solution
## 651                               Profound dynamic attitude
## 652                          Enhanced system-worthy toolset
## 653                     Reverse-engineered dynamic function
## 654                        Networked responsive application
## 655                         Distributed intangible database
## 656                            Multi-tiered mobile encoding
## 657                 Optional contextually-based flexibility
## 658                             Proactive local focus group
## 659                      Customer-focused impactful success
## 660                      Open-source optimizing parallelism
## 661                               Organic logistical adapter
## 662                  Stand-alone eco-centric system engine
## 663                User-centric intermediate knowledge user
## 664                          Programmable didactic capacity
## 665                        Enhanced regional conglomeration
## 666                         Total asynchronous architecture
## 667                       Secured upward-trending benchmark
## 668                         Customizable value-added project
## 669                           Integrated interactive support
## 670                            Reactive impactful challenge
## 671                         Switchable multi-state success
## 672                       Synchronized multi-tasking ability
## 673               Fundamental clear-thinking knowledgebase
## 674                  Multi-layered user-facing parallelism
## 675                           Front-line incremental access
## 676       Open-architected zero administration secured line
## 677                Mandatory disintermediate info-mediaries
## 678        Implemented context-sensitive Local Area Network
## 679                       Digitized interactive initiative
## 680                   Implemented asynchronous application
## 681                          Focused multi-state workforce
## 682                        Proactive secondary monitoring
## 683                    Front-line upward-trending groupware
## 684              Quality-focused 5thgeneration orchestration
## 685                        Multi-layered secondary software
## 686                           Total coherent superstructure
## 687                        Monitored executive architecture
## 688                              Front-line multi-state hub
```

```
## 689                 Configurable mission-critical algorithm
## 690                       Face-to-face responsive alliance
## 691                            Reduced holistic help-desk
## 692                        Pre-emptive content-based frame
## 693                         Optional full-range projection
## 694                         Expanded value-added emulation
## 695                        Organic well-modulated database
## 696                       Organic 3rdgeneration encryption
## 697                       Stand-alone empowering benchmark
## 698                         Monitored intermediate circuit
## 699                    Object-based leadingedge complexity
## 700                   Digitized zero-defect implementation
## 701                        Configurable impactful firmware
## 702                     Face-to-face dedicated flexibility
## 703                Fully-configurable 5thgeneration circuit
## 704                        Configurable impactful capacity
## 705                  Distributed leadingedge orchestration
## 706                     Persistent even-keeled application
## 707                  Optimized attitude-oriented initiative
## 708                     Multi-channeled 3rdgeneration model
## 709                   Polarized mission-critical structure
## 710                       Virtual executive implementation
## 711                  Enhanced intermediate standardization
## 712                       Realigned tangible collaboration
## 713                              Cloned dedicated analyzer
## 714                  Ameliorated well-modulated complexity
## 715               Quality-focused bi-directional throughput
## 716                Versatile solution-oriented secured line
## 717                 Phased leadingedge budgetary management
## 718                     Devolved exuding Local Area Network
## 719                Front-line bandwidth-monitored capacity
## 720               User-centric solution-oriented emulation
## 721                                 Phased hybrid intranet
## 722             Monitored zero administration collaboration
## 723                   Team-oriented systematic installation
## 724                                 Inverse national core
## 725                        Secured uniform instruction set
## 726                Quality-focused zero tolerance matrices
## 727                        Multi-tiered heuristic strategy
## 728                               Optimized static archive
## 729                       Advanced didactic conglomeration
## 730                        Synergistic discrete middleware
## 731                 Pre-emptive client-server installation
## 732               Multi-channeled attitude-oriented toolset
## 733                          Decentralized 24hour approach
## 734                        Organic next generation matrix
## 735                 Multi-channeled non-volatile website
## 736                       Distributed bifurcated challenge
## 737              Customizable zero-defect Internet solution
## 738            Self-enabling zero administration neural-net
## 739                  Optimized upward-trending productivity
## 740                  Open-architected system-worthy ability
## 741                      Quality-focused maximized extranet
## 742                    Centralized client-driven workforce
```

```
## 743                   De-engineered intangible flexibility
## 744                      Re-engineered intangible software
## 745             Sharable secondary Graphical User Interface
## 746                        Innovative homogeneous alliance
## 747                            Diverse leadingedge website
## 748                       Optimized intermediate help-desk
## 749                            Sharable reciprocal project
## 750                  Proactive interactive service-desk
## 751          Open-architected needs-based customer loyalty
## 752                    Multi-lateral motivating circuit
## 753                     Assimilated encompassing portal
## 754                    Cross-group global orchestration
## 755                  Down-sized bandwidth-monitored core
## 756                         Monitored explicit hierarchy
## 757                     Reactive demand-driven strategy
## 758                        Universal empowering adapter
## 759               Team-oriented bi-directional secured line
## 760                        Stand-alone radical throughput
## 761                        Inverse zero-defect capability
## 762                  Multi-tiered real-time implementation
## 763                         Front-line zero-defect array
## 764                    Mandatory 4thgeneration structure
## 765                Synergistic asynchronous superstructure
## 766                 Vision-oriented system-worthy forecast
## 767                         Digitized radical architecture
## 768                 Quality-focused optimizing parallelism
## 769                          Exclusive discrete firmware
## 770               Right-sized solution-oriented benchmark
## 771                         Assimilated stable encryption
## 772                    Configurable dynamic secured line
## 773                               Cloned optimal leverage
## 774               Decentralized client-driven data-warehouse
## 775                      Multi-tiered interactive neural-net
## 776                         Enhanced methodical database
## 777                    Ameliorated leadingedge help-desk
## 778               De-engineered attitude-oriented projection
## 779                 Persevering 5thgeneration knowledge user
## 780                      Extended grid-enabled hierarchy
## 781                        Reactive tangible contingency
## 782                Decentralized attitude-oriented interface
## 783                        Mandatory coherent groupware
## 784                    Fully-configurable eco-centric frame
## 785                  Advanced disintermediate data-warehouse
## 786                Quality-focused zero-defect data-warehouse
## 787                     Cross-group non-volatile secured line
## 788                         Expanded modular application
## 789                Triple-buffered systematic info-mediaries
## 790                      Networked non-volatile synergy
## 791           Fully-configurable clear-thinking throughput
## 792                  Front-line actuating functionalities
## 793                         Compatible composite project
## 794            Customer-focused solution-oriented software
## 795                               Inverse stable synergy
## 796                  Pre-emptive well-modulated moderator
```

```
## 797                         Intuitive modular system engine
## 798                       Centralized value-added hierarchy
## 799                           Assimilated hybrid initiative
## 800                     Optimized coherent Internet solution
## 801                      Versatile 6thgeneration parallelism
## 802                      Configurable impactful productivity
## 803                            Operative full-range forecast
## 804                      Operative secondary functionalities
## 805                  Business-focused transitional solution
## 806       Ameliorated intermediate Graphical User Interface
## 807                                 Managed 24hour analyzer
## 808                       Horizontal client-server database
## 809                            Implemented didactic support
## 810                              Digitized homogeneous core
## 811                             Robust holistic application
## 812                            Synergized uniform hierarchy
## 813                  Pre-emptive client-driven secured line
## 814                          Front-line even-keeled website
## 815                  Persistent fault-tolerant service-desk
## 816                            Integrated leadingedge frame
## 817                  Ameliorated coherent open architecture
## 818                  Vision-oriented bifurcated contingency
## 819                               Up-sized maximized model
## 820                            Organized global flexibility
## 821             Re-engineered zero-defect open architecture
## 822                            Balanced executive definition
## 823                     Networked logistical info-mediaries
## 824                            Optimized multimedia website
## 825                               Focused coherent success
## 826                     Robust context-sensitive neural-net
## 827                   Intuitive zero administration adapter
## 828                          Synchronized full-range portal
## 829                         Integrated encompassing support
## 830                         Devolved human-resource circuit
## 831                      Grass-roots transitional flexibility
## 832                        Vision-oriented methodical support
## 833                            Integrated impactful groupware
## 834                       Face-to-face methodical intranet
## 835                       Fundamental tangible moratorium
## 836                     Balanced mobile Local Area Network
## 837                                   Realigned 24/7 core
## 838                  Fully-configurable high-level groupware
## 839                            Ameliorated discrete extranet
## 840                          Centralized asynchronous portal
## 841                            Enhanced tertiary utilization
## 842                  Balanced disintermediate conglomeration
## 843                            Sharable value-added solution
## 844                            Networked impactful framework
## 845                         Public-key impactful neural-net
## 846                            Innovative interactive portal
## 847                      Networked asymmetric infrastructure
## 848                            Assimilated discrete strategy
## 849                        Phased 5thgeneration open system
## 850                         Upgradable logistical flexibility
```

```
## 851                     Centralized user-facing service-desk
## 852                             Extended analyzing emulation
## 853                        Front-line methodical utilization
## 854                            Open-source scalable protocol
## 855                             Networked local secured line
## 856                   Programmable empowering orchestration
## 857                              Enhanced systemic benchmark
## 858            Focused web-enabled Graphical User Interface
## 859                              Automated stable help-desk
## 860                               Managed national hardware
## 861                      Re-engineered composite moratorium
## 862                        Phased fault-tolerant definition
## 863           Pre-emptive next generation Internet solution
## 864                  Reverse-engineered web-enabled support
## 865                      Horizontal intermediate monitoring
## 866          Intuitive transitional artificial intelligence
## 867       Business-focused asynchronous budgetary management
## 868                     Decentralized methodical capability
## 869                       Synergized intangible open system
## 870                     Stand-alone logistical service-desk
## 871                             Expanded full-range synergy
## 872                    Open-architected intangible strategy
## 873                            Diverse directional hardware
## 874                              Balanced discrete approach
## 875                            Total bi-directional success
## 876                  Object-based motivating instruction set
## 877                       Realigned intermediate application
## 878                           Sharable encompassing database
## 879                              Progressive 24/7 definition
## 880                     Pre-emptive next generation strategy
## 881                       Open-source 5thgeneration leverage
## 882                        Open-source holistic productivity
## 883                     Multi-channeled scalable moratorium
## 884                           Optional tangible productivity
## 885                              Up-sized intangible circuit
## 886                  Virtual homogeneous budgetary management
## 887                               Phased zero-defect portal
## 888                             Optional modular throughput
## 889                Triple-buffered human-resource complexity
## 890                    Innovative cohesive pricing structure
## 891                       Function-based executive moderator
## 892                          Digitized content-based circuit
## 893                               Balanced uniform algorithm
## 894                    Triple-buffered foreground encryption
## 895                     Front-line system-worthy flexibility
## 896              Centralized clear-thinking Graphic Interface
## 897                       Optimized 5thgeneration moratorium
## 898                  Fully-configurable asynchronous firmware
## 899                             Exclusive systematic algorithm
## 900                              Exclusive cohesive intranet
## 901           Vision-oriented asynchronous Internet solution
## 902                           Sharable 5thgeneration access
## 903            Monitored homogeneous artificial intelligence
## 904                               Monitored 24/7 moratorium
```

```
## 905                     Vision-oriented real-time framework
## 906                         Future-proofed stable function
## 907           Secured encompassing Graphical User Interface
## 908                       Right-sized logistical middleware
## 909                            Team-oriented executive core
## 910                 Vision-oriented next generation solution
## 911                               Enhanced optimizing website
## 912                       Reduced background data-warehouse
## 913                           Right-sized mobile initiative
## 914                       Synergized grid-enabled framework
## 915                             Open-source stable paradigm
## 916           Reverse-engineered context-sensitive emulation
## 917                     Public-key disintermediate emulation
## 918                           Up-sized bifurcated capability
## 919                       Stand-alone background open system
## 920                       Stand-alone explicit orchestration
## 921                    Configurable asynchronous application
## 922                          Upgradable 4thgeneration portal
## 923                         Networked client-server solution
## 924       Public-key bi-directional Graphical User Interface
## 925                 Re-contextualized human-resource success
## 926                   Front-line fresh-thinking installation
## 927                               Balanced empowering success
## 928                                  Robust uniform framework
## 929                        Sharable upward-trending support
## 930                        Assimilated multi-state paradigm
## 931                            Self-enabling local strategy
## 932                              Open-source local approach
## 933                          Polarized intangible encoding
## 934                  Multi-lateral attitude-oriented adapter
## 935                     Multi-lateral 24/7 Internet solution
## 936                           Profit-focused secondary portal
## 937                       Reactive upward-trending migration
## 938           Customer-focused fault-tolerant implementation
## 939                     Customizable homogeneous contingency
## 940              Versatile next generation pricing structure
## 941                    Cross-group systemic customer loyalty
## 942                Face-to-face modular budgetary management
## 943                         Proactive non-volatile encryption
## 944                     Decentralized bottom-line help-desk
## 945                   Visionary mission-critical application
## 946                   User-centric attitude-oriented adapter
## 947                            User-centric discrete success
## 948                          Total even-keeled architecture
## 949                        Focused multimedia implementation
## 950                      Stand-alone well-modulated product
## 951              Ameliorated bandwidth-monitored contingency
## 952                       Streamlined homogeneous analyzer
## 953                                  Total coherent archive
## 954                            Front-line neutral alliance
## 955                        Virtual context-sensitive support
## 956                             Re-engineered optimal policy
## 957                              Implemented uniform synergy
## 958                         Horizontal even-keeled challenge
```

```
## 959                          Innovative regional groupware
## 960                 Exclusive multi-state Internet solution
## 961                        Mandatory empowering focus group
## 962                           Proactive 5thgeneration frame
## 963                  Automated full-range Internet solution
## 964                Fully-configurable systemic productivity
## 965                    Multi-lateral multi-state encryption
## 966                                 Intuitive global website
## 967            Exclusive disintermediate Internet solution
## 968                       Ameliorated actuating workforce
## 969                    Synergized clear-thinking protocol
## 970                 Triple-buffered multi-state complexity
## 971                              Enhanced intangible portal
## 972                         Down-sized background groupware
## 973                            Switchable real-time product
## 974                             Ameliorated local workforce
## 975                             Streamlined exuding adapter
## 976                  Business-focused user-facing benchmark
## 977                 Reactive bi-directional standardization
## 978                               Virtual bifurcated portal
## 979                      Integrated 3rdgeneration monitoring
## 980                          Balanced responsive open system
## 981                   Focused incremental Graphic Interface
## 982                                 Secured 24hour policy
## 983                             Up-sized asymmetric firmware
## 984                 Distributed fault-tolerant service-desk
## 985                  Vision-oriented human-resource synergy
## 986                     Customer-focused explicit challenge
## 987                   Synchronized human-resource moderator
## 988                  Open-architected full-range projection
## 989                               Versatile local forecast
## 990                       Ameliorated user-facing help-desk
## 991                          Enterprise-wide tangible model
## 992                  Versatile mission-critical application
## 993                           Extended leadingedge solution
## 994                          Phased zero tolerance extranet
## 995                           Front-line bifurcated ability
## 996                           Fundamental modular algorithm
## 997                         Grass-roots cohesive monitoring
## 998                            Expanded intangible solution
## 999                    Proactive bandwidth-monitored policy
## 1000                        Virtual 5thgeneration emulation
##                         City Male
## 1                 Wrightburgh    0
## 2                   West Jodi    1
## 3                    Davidton    0
## 4               West Terrifurt    1
## 5                 South Manuel    0
## 6                    Jamieberg    1
## 7                 Brandonstad    0
## 8            Port Jefferybury    1
## 9                  West Colin    1
## 10                 Ramirezton    1
## 11            West Brandonton    0
```

```
## 12         East Theresashire    1
## 13            West Katiefurt    1
## 14                North Tara    0
## 15              West William    0
## 16             New Travistown    1
## 17             West Dylanberg    0
## 18                Pruittmouth    0
## 19                Jessicastad    1
## 20                 Millertown    1
## 21           Port Jacqueline    1
## 22                Lake Nicole    1
## 23                 South John    0
## 24                Pamelamouth    1
## 25              Harperborough    0
## 26         Port Danielleberg    1
## 27            West Jeremyside    1
## 28            South Cathyfurt    0
## 29                 Palmerside    0
## 30              West Guybury    0
## 31             Phelpschester    1
## 32         Lake Melindamouth    1
## 33        North Richardburgh    1
## 34                Port Cassie    0
## 35                 New Thomas    1
## 36                   Johnstad    0
## 37             West Aprilport    1
## 38                  Kellytown    0
## 39              Charlesport    1
## 40             Millerchester    0
## 41             Mackenziemouth    0
## 42                Zacharystad    0
## 43              North Joshua    1
## 44                 Bowenview    0
## 45                 Jamesberg    0
## 46        Lake Cassandraport    1
## 47                New Sharon    1
## 48                  Johnport    0
## 49              Hamiltonfort    1
## 50          West Christopher    0
## 51              Hollandberg    1
## 52                Odomville    0
## 53        East Samanthashire    1
## 54            South Lauraton    1
## 55               Amandahaven    0
## 56                Thomasview    0
## 57                Garciaside    0
## 58           Port Sarahshire    0
## 59              Port Gregory    0
## 60             Brendachester    0
## 61                  Lake Amy    0
## 62            Lake Annashire    1
## 63                Smithburgh    0
## 64           North Leonmouth    1
## 65                Robertfurt    0
```

```
## 66               Jasminefort    1
## 67             Jensenborough    0
## 68              Bradleyburgh    0
## 69                New Sheila    1
## 70              North Regina    0
## 71                Davidmouth    0
## 72           New Michaeltown    0
## 73                East Tammie    1
## 74                Wilcoxport    1
## 75         East Michaelmouth    1
## 76          East Tiffanyport    0
## 77              Ramirezhaven    1
## 78                Cranemouth    1
## 79               Lake Edward    1
## 80           Lake Conniefurt    0
## 81         East Shawnchester    1
## 82                West Joseph    1
## 83      Lake Christopherfurt    0
## 84           East Tylershire    0
## 85                 Sharpberg    0
## 86               Lake Dustin    0
## 87             North Kristine    0
## 88                 Grahamberg    1
## 89                  New Tina    0
## 90                Nelsonfurt    1
## 91           Christopherport    0
## 92           Port Sarahhaven    0
## 93            Bradleyborough    1
## 94                 Whiteport    1
## 95               New Theresa    1
## 96                  Wongland    0
## 97              Williammouth    1
## 98           Williamsborough    0
## 99             North Michael    0
## 100          Benjaminchester    1
## 101           Hernandezville    0
## 102               Youngburgh    1
## 103           Wallacechester    0
## 104             Sanchezmouth    1
## 105          Bradshawborough    0
## 106                 Amyhaven    1
## 107              Marcushaven    1
## 108                  Erinton    0
## 109               Hughesport    0
## 110                 Johnstad    0
## 111           New Lucasburgh    0
## 112             Michelleside    1
## 113              Andersonton    0
## 114                New Rachel    1
## 115                Port Susan    1
## 116          West Angelabury    1
## 117  Port Christopherborough    0
## 118              Phillipsbury    1
## 119                Millerside    0
```

```
## 120             Lake Jessica    0
## 121               Lopezmouth    1
## 122                Johnsport    0
## 123             South Ronald    0
## 124             South Daniel    0
## 125              Suzannetown    0
## 126                 Lisaberg    0
## 127                Brianfurt    0
## 128              Stewartbury    0
## 129          Benjaminchester    0
## 130      North Wesleychester    0
## 131        East Michelleberg    0
## 132                Port Eric    0
## 133              Timothyfurt    0
## 134             Port Jeffrey    0
## 135               Guzmanland    0
## 136             East Michele    1
## 137                East John    0
## 138               Lesliebury    1
## 139            Patriciahaven    1
## 140            Ashleychester    1
## 141            Lake Josetown    0
## 142               Debraburgh    1
## 143          New Debbiestad    1
## 144                West Shaun    1
## 145            Kimberlyhaven    0
## 146            Port Lawrence    1
## 147             West Ricardo    1
## 148                Lake Jose    1
## 149              Heatherberg    0
## 150             South George    0
## 151              Tinachester    1
## 152                Port Jodi    0
## 153             Jonathantown    1
## 154              Sylviaview    0
## 155         East Timothyport    1
## 156             West Roytown    1
## 157                Codyburgh    0
## 158          Port Erikhaven    1
## 159         Port Chasemouth    1
## 160              Ramirezside    0
## 161         East Michaeltown    1
## 162            West Courtney    1
## 163        West Michaelhaven    0
## 164               Walshhaven    0
## 165         East Rachelview    0
## 166               Curtisport    0
## 167                Frankbury    0
## 168              Timothytown    1
## 169            Samanthaland    1
## 170           South Jennifer    0
## 171              Kyleborough    1
## 172              North Randy    1
## 173       South Daniellefort    0
```

```
## 174              Dianashire    0
## 175               East Eric    0
## 176             Hammondport    0
## 177               Jacobstad    0
## 178           Hernandezfort    0
## 179                Joneston    1
## 180      New Jeffreychester    0
## 181            East Stephen    0
## 182           Turnerchester    0
## 183               Youngfort    0
## 184              Ingramberg    1
## 185        South Denisefurt    0
## 186        Port Melissaberg    0
## 187              Bernardton    1
## 188             Port Mathew    1
## 189              Aliciatown    0
## 190              Josephstad    0
## 191           West Ericfurt    0
## 192          New Brendafurt    0
## 193              Port Julie    1
## 194        South Tiffanyton    1
## 195         North Elizabeth    1
## 196               Kentmouth    0
## 197              West Casey    1
## 198              East Henry    1
## 199               Hollyfurt    1
## 200              North Anna    0
## 201            Port Destiny    0
## 202                Ianmouth    1
## 203          North Johntown    1
## 204              Hannahside    1
## 205            Wilsonburgh    0
## 206    North Russellborough    0
## 207             Murphymouth    0
## 208            Carterburgh    1
## 209                Penatown    0
## 210              Joechester    1
## 211               East Paul    1
## 212         Hartmanchester    0
## 213           Mcdonaldfort    1
## 214          North Mercedes    1
## 215              Taylorberg    0
## 216            Hansenmouth    0
## 217              Bradyfurt    1
## 218       West Jessicahaven    0
## 219           Davilachester    0
## 220       North Ricardotown    0
## 221             Melissafurt    0
## 222          East Brianberg    0
## 223              Millerbury    0
## 224              Garciaview    0
## 225            Townsendfurt    0
## 226              Williamstad    0
## 227              West Connor    0
```

```
## 228             West Justin    0
## 229              Robertbury    0
## 230           New Tinamouth    0
## 231              Turnerview    1
## 232            Reneechester    1
## 233          West Tinashire    0
## 234               Jamesfurt    0
## 235               New Nancy    1
## 236               Lisamouth    1
## 237              Harveyport    0
## 238               Ramosstad    0
## 239         North Kevinside    0
## 240                Haleview    1
## 241          Christinetown    0
## 242             New Michael    1
## 243                Jonesland    1
## 244          North Shannon    0
## 245          New Sonialand    1
## 246             Port Jason    1
## 247           East Barbara    1
## 248          Port Erinberg    1
## 249           Petersonfurt    0
## 250          New Lindaberg    0
## 251           West Russell    0
## 252              South Adam    1
## 253         North Tracyport    1
## 254                Brownport    1
## 255           Port Crystal    0
## 256             Masonhaven    0
## 257           Derrickhaven    0
## 258              Olsonstad    1
## 259              New Brandy    0
## 260       South Jasminebury    0
## 261            East Timothy    0
## 262          Charlottefort    0
## 263         Lake Beckyburgh    1
## 264        West Lindseybury    0
## 265             West Alyssa    0
## 266         Lake Craigview    1
## 267              Lake David    0
## 268              Bruceburgh    0
## 269         South Lauratown    1
## 270              Port Robin    0
## 271           Jacksonburgh    1
## 272              Erinmouth    1
## 273         Port Aliciabury    0
## 274       Port Whitneyhaven    0
## 275            Jeffreyshire    0
## 276                 Tinaton    0
## 277         North Loriburgh    0
## 278                Wendyton    1
## 279         Lake Jacqueline    1
## 280       North Christopher    1
## 281           Alexanderfurt    0
```

```
## 282             West Pamela    0
## 283             West Amanda    0
## 284           South Tomside    0
## 285               Bethburgh    1
## 286               Jamiefort    1
## 287             Garciamouth    0
## 288             West Brenda    0
## 289              South Kyle    0
## 290              Combsstad    0
## 291         Lake Allenville    0
## 292           Greenechester    0
## 293              Jordantown    1
## 294              Gravesport    0
## 295              South Troy    1
## 296            Lake Patrick    1
## 297              Millerland    0
## 298       Port Jessicamouth    0
## 299                Paulport    0
## 300              Clineshire    1
## 301             Cynthiaside    0
## 302               Port Juan    0
## 303           Michellefort    0
## 304        Port Angelamouth    1
## 305            Jessicahaven    0
## 306            North Daniel    1
## 307                New Juan    0
## 308                 Amyfurt    0
## 309             Harrishaven    0
## 310              Roberttown    0
## 311             Jeremyshire    1
## 312               Birdshire    0
## 313              New Amanda    0
## 314              Curtisview    1
## 315            Jacksonmouth    0
## 316              North April    0
## 317              Hayesmouth    0
## 318             South Corey    1
## 319               Juliaport    0
## 320          Port Paultown    0
## 321        East Vincentstad    0
## 322            Kimberlytown    0
## 323               New Steve    1
## 324            New Johnberg    0
## 325                Shawstad    0
## 326             New Rebecca    0
## 327           Jeffreyburgh    1
## 328              Faithview    0
## 329          Richardsontown    0
## 330         Port Brookeland    0
## 331    East Christopherbury    0
## 332     Port Christinemouth    0
## 333            South Meghan    1
## 334                Hessstad    1
## 335           Rhondaborough    1
```

```
## 336              Lewismouth    1
## 337                New Paul    0
## 338             Lake Angela    1
## 339          East Graceland    1
## 340                 Hartport    0
## 341       East Yvonnechester    0
## 342             Burgessside    0
## 343           Hurleyborough    0
## 344             Garychester    1
## 345          East Kevinbury    1
## 346          Contrerasshire    1
## 347               Erikville    0
## 348          Robertsonburgh    1
## 349                Karenton    0
## 350        Port Kathleenfort    0
## 351              Lake Adrian    0
## 352               New Sheila    1
## 353                Mollyport    0
## 354               Sandraland    1
## 355             Charlenetown    0
## 356              Luischester    1
## 357        South Johnnymouth    0
## 358                Hannaport    0
## 359             East Anthony    0
## 360         West Daleborough    0
## 361              Morrismouth    1
## 362         North Andrewstad    1
## 363              Wrightburgh    1
## 364               West Tanya    1
## 365                Novaktown    1
## 366             Timothymouth    1
## 367              Robertmouth    1
## 368          Stephenborough    0
## 369          Lake Kurtmouth    0
## 370              Lauraburgh    1
## 371              Rogerburgh    0
## 372                Davidside    1
## 373              West Thomas    0
## 374         Andersonchester    0
## 375        North Ronaldshire    1
## 376                Greghaven    1
## 377              Jordanmouth    1
## 378              Meyersstad    0
## 379            Michelleside    0
## 380             South Robert    1
## 381                New Tyler    0
## 382             Jordanshire    1
## 383                Reyesland    0
## 384          New Traceystad    1
## 385              Port Brian    0
## 386           Lake Courtney    0
## 387           Samuelborough    1
## 388          Christinehaven    1
## 389              Thomasstad    1
```

```
## 390              Kristintown    0
## 391                New Wanda    1
## 392                Mariebury    0
## 393         Christopherville    1
## 394              New Jasmine    0
## 395                Lopezberg    1
## 396            Jenniferstad    1
## 397         West Eduardotown    1
## 398                Davisfurt    0
## 399               Bakerhaven    1
## 400                Paulshire    1
## 401                West Jane    1
## 402               Lake Brian    0
## 403             Alvaradoport    0
## 404               Lake Kevin    0
## 405           Richardsonland    1
## 406          East Sheriville    0
## 407        Port Michealburgh    1
## 408                Monicaview    0
## 409                Katieport    0
## 410       East Brittanyville    0
## 411         West Travismouth    0
## 412              Leonchester    0
## 413              Ramirezland    1
## 414                 Brownton    0
## 415          New Jessicaport    1
## 416          New Denisebury    1
## 417                Keithtown    0
## 418         Port Melissastad    1
## 419               Janiceview    1
## 420                 Mataberg    1
## 421         West Melaniefurt    1
## 422               Millerfort    1
## 423            Alexanderview    1
## 424                South Jade    0
## 425               Lake Susan    1
## 426     South Vincentchester    1
## 427            Williamsmouth    1
## 428               Taylorport    0
## 429            Williamsport    0
## 430                Emilyfurt    1
## 431                East John    1
## 432        East Deborahhaven    1
## 433         Port Katelynview    0
## 434                Paulhaven    1
## 435           Elizabethmouth    1
## 436               Lake Jesus    0
## 437          North Tylerland    1
## 438                Munozberg    0
## 439           North Maryland    1
## 440             West Barbara    0
## 441            Andrewborough    0
## 442              New Gabriel    0
## 443          Port Patrickton    1
```

```
## 444              West Julia    1
## 445          New Keithburgh    0
## 446            Richardsland    1
## 447       North Aaronchester    1
## 448         Lake Matthewland    0
## 449                Kevinberg    0
## 450              Morganfort    1
## 451               Lovemouth    0
## 452             Taylorhaven    0
## 453              Jamesville    0
## 454           East Toddfort    1
## 455               East Dana    1
## 456              West Lucas    0
## 457              Butlerfort    0
## 458               Lindaside    1
## 459       West Chloeborough    1
## 460                Jayville    1
## 461            East Lindsey    1
## 462             Masseyshire    0
## 463                Sarahton    1
## 464              Ryanhaven    1
## 465       Lake Deborahburgh    1
## 466        New Williammouth    1
## 467              Port Blake    0
## 468            West Richard    1
## 469             Brandymouth    0
## 470             Sandraville    1
## 471            Port Jessica    0
## 472       Lake Jasonchester    0
## 473             Pearsonfort    0
## 474             Sellerstown    0
## 475                   Yuton    0
## 476              Smithtown    1
## 477              Joanntown    1
## 478             South Peter    1
## 479           Port Mitchell    1
## 480             Pottermouth    1
## 481       Lake Jonathanview    1
## 482                Alanview    1
## 483             Carterport    0
## 484        New Daniellefort    1
## 485              Welchshire    0
## 486            Russellville    1
## 487               West Lisa    1
## 488              Greentown    0
## 489            Timothyport    0
## 490            Teresahaven    1
## 491     Lake Stephenborough    0
## 492                Silvaton    0
## 493        West Michaelstad    1
## 494              Florestown    0
## 495                 New Jay    1
## 496       North Lisachester    0
## 497              Port Stacy    1
```

```
## 498               Jensenton    0
## 499         North Alexandra    0
## 500               Rivasland    0
## 501            Helenborough    0
## 502              Garnerberg    0
## 503           North Anaport    0
## 504              Pattymouth    0
## 505      South Alexisborough    0
## 506           East Jennifer    1
## 507                Hallfort    0
## 508       New Charleschester    0
## 509         East Breannafurt    0
## 510          East Susanland    1
## 511               Estesfurt    0
## 512             Shirleyfort    1
## 513             Douglasview    1
## 514              South Lisa    1
## 515              Kingshire    0
## 516            Rebeccamouth    1
## 517              Brownbury    1
## 518             South Aaron    0
## 519            North Andrew    1
## 520            South Walter    1
## 521          Catherinefort    0
## 522             East Donna    1
## 523           East Timothy    1
## 524         North Kimberly    0
## 525     South Stephanieport    1
## 526     North Isabellaville    0
## 527        North Aaronburgh    0
## 528              Port James    1
## 529             Danielview    0
## 530            Port Stacey    1
## 531         West Kevinfurt    1
## 532          Lake Jennifer    1
## 533              Reyesfurt    0
## 534         West Carmenfurt    1
## 535     North Stephanieberg    0
## 536           East Valerie    1
## 537            Sherrishire    0
## 538            Port Daniel    0
## 539              Brownview    0
## 540               Greerton    1
## 541           Hatfieldshire    1
## 542              Brianabury    1
## 543              New Maria    0
## 544               Colebury    1
## 545              Calebberg    0
## 546               Lake Ian    0
## 547              Gomezport    0
## 548              Shaneland    0
## 549             East Aaron    0
## 550          Dustinborough    1
## 551        East Michaelland    0
```

```
## 552             East Connie    1
## 553            West Shannon    0
## 554         North Lauraland    1
## 555        Port Christopher    1
## 556       South Patrickfort    0
## 557         East Georgeside    1
## 558             Charlesbury    0
## 559              Millertown    1
## 560             South Renee    1
## 561       South Jackieberg    0
## 562              Loriville    1
## 563             Amandaland    1
## 564         West Robertside    0
## 565         North Sarashire    0
## 566              Port Maria    1
## 567          East Jessefort    0
## 568            Port Anthony    0
## 569             Edwardmouth    1
## 570           Dustinchester    1
## 571               Rochabury    0
## 572            Williamsport    1
## 573             Austinland    0
## 574            Lake Gerald    1
## 575             Wrightview    0
## 576             Perryburgh    0
## 577             Tracyhaven    1
## 578         South Jaimeview    0
## 579             Sandersland    1
## 580     South Meredithmouth    0
## 581         Richardsonshire    0
## 582           Kimberlymouth    0
## 583           Meghanchester    0
## 584              Tammyshire    0
## 585             Millerbury    1
## 586      Lake Elizabethside    1
## 587           Villanuevaton    0
## 588               Greerport    0
## 589         North Garyhaven    0
## 590             East Sharon    0
## 591           Johnstonmouth    0
## 592        East Heatherside    0
## 593            Lake Patrick    1
## 594         Richardsonmouth    0
## 595           Jenniferhaven    1
## 596               Boyerberg    1
## 597            Port Elijah    1
## 598             Knappburgh    1
## 599            New Dawnland    0
## 600           Chapmanmouth    0
## 601             Robertside    1
## 602       West Raymondmouth    1
## 603             Costaburgh    1
## 604           Kristineberg    1
## 605            Sandrashire    1
```

```
## 606             Andersonfurt    1
## 607                Tranland    0
## 608              Michaelland    1
## 609         East Rachaelfurt    1
## 610            Lake Johnbury    1
## 611            Elizabethstad    0
## 612                West Brad    1
## 613            Johnstonshire    1
## 614             Lake Timothy    1
## 615              Anthonyfurt    0
## 616            East Brettton    0
## 617              New Matthew    1
## 618       Christopherchester    0
## 619                Westshire    0
## 620              Alexisland    0
## 621             Kevinchester    1
## 622        New Patriciashire    1
## 623              Port Brenda    1
## 624            Port Brianfort    1
## 625               Portermouth    1
## 626             Hubbardmouth    1
## 627              South Brian    1
## 628             Hendrixmouth    1
## 629                Julietown    0
## 630                 Lukeport    1
## 631                New Shane    1
## 632           Lake Jillville    1
## 633               Johnsonfort    0
## 634                Adamsbury    0
## 635             East Maureen    1
## 636         North Angelastad    0
## 637                Amandafort    0
## 638             Michaelmouth    1
## 639               Ronaldport    0
## 640           Port Davidland    0
## 641              Isaacborough    1
## 642             Lake Michael    0
## 643        West Michaelshire    0
## 644          Port Calvintown    0
## 645              Parkerhaven    0
## 646                Markhaven    1
## 647             Estradashire    0
## 648                Brianland    1
## 649            Cassandratown    0
## 650           West Dannyberg    0
## 651        East Debraborough    0
## 652             Frankchester    1
## 653                 Lisafort    1
## 654             Colemanshire    0
## 655                Troyville    1
## 656                Hobbsbury    0
## 657            Harrisonmouth    1
## 658          Port Eugeneport    1
## 659              Karenmouth    0
```

```
## 660             Brendaburgh    1
## 661       New Christinatown    0
## 662             Jacksonstad    1
## 663          South Margaret    1
## 664        Port Georgebury     0
## 665        New Jessicaport     0
## 666             Sanderstown    1
## 667               Perezland    1
## 668                Luisfurt    0
## 669           New Karenberg    1
## 670            West Leahton    0
## 671            West Sharon     0
## 672              Klineside    1
## 673           Lake Cynthia     0
## 674      South Cynthiashire    1
## 675              Lake Jacob    0
## 676          West Samantha     1
## 677             Jeremybury    1
## 678            Blevinstown     1
## 679           Meyerchester     0
## 680            Reginamouth     0
## 681            Donaldshire     1
## 682            Salazarbury     1
## 683        Lake Joshuafurt     1
## 684             Wintersfort    0
## 685              Jamesmouth    0
## 686              Laurieside    1
## 687            Andrewmouth     1
## 688            West Angela     1
## 689            East Carlos     0
## 690            Kennedyfurt     1
## 691             Blairville     0
## 692          East Donnatown    1
## 693            Matthewtown     1
## 694            Brandonbury     0
## 695           New Jamestown    1
## 696            Mosleyburgh     0
## 697               Leahside     0
## 698         West Wendyland     0
## 699        Lawrenceborough     0
## 700             Kennethview    0
## 701          West Mariafort    1
## 702        Port Sherrystad     0
## 703       West Melissashire    1
## 704             Pamelamouth    0
## 705              Lesliefort    0
## 706               Shawnside    1
## 707             Josephmouth    0
## 708              Garciatown    0
## 709              Chaseshire    1
## 710             Destinyfurt    0
## 711                 Mezaton    0
## 712               New Kayla    1
## 713             Carsonshire    1
```

```
## 714          Jacquelineshire    1
## 715          South Blakestad    1
## 716               North Mark    0
## 717              Kingchester    1
## 718                Evansfurt    0
## 719          South Adamhaven    1
## 720          Brittanyborough    0
## 721              Barbershire    0
## 722            East Ericport    1
## 723            Crawfordfurt    1
## 724             Turnerville    0
## 725               Kylieview    1
## 726      West Zacharyborough    0
## 727             Watsonfort    1
## 728                 Dayton    1
## 729            Nicholasport    1
## 730             Whitneyfort    1
## 731             Coffeytown    1
## 732           North Johnside    1
## 733             Robinsonland    0
## 734               Lake David    1
## 735           West Ericaport    0
## 736                Haleberg    0
## 737         West Michaelport    1
## 738            Ericksonmouth    0
## 739                 Yangside    1
## 740              Estradafurt    0
## 741                Frankport    1
## 742                Port Juan    0
## 743             Williamsside    1
## 744              Johnsonview    1
## 745               East Heidi    0
## 746            New Angelview    0
## 747         Lake Brandonview    0
## 748               Morganport    0
## 749                Browntown    0
## 750              Lake Hailey    0
## 751                Olsonside    1
## 752                 Coxhaven    1
## 753               Meaganfort    0
## 754        North Monicaville    0
## 755               Mullenside    0
## 756               Princebury    1
## 757              Bradleyside    0
## 758            Elizabethbury    1
## 759                West Ryan    0
## 760                New Tammy    1
## 761              Sanchezland    0
## 762                Rogerland    0
## 763              Vanessaview    1
## 764             Jessicashire    1
## 765           Melissachester    1
## 766              Johnsontown    0
## 767           New Joshuaport    1
```

```
## 768            Hernandezside    1
## 769        New Williamville    1
## 770            Gilbertville    1
## 771              Newmanberg    0
## 772              West Alice    1
## 773              Cannonbury    0
## 774              Shelbyport    1
## 775               New Henry    0
## 776             Dustinmouth    1
## 777              South Lisa    0
## 778               Lisamouth    0
## 779           New Hollyberg    0
## 780      Port Brittanyville    0
## 781             East Ronald    1
## 782        South Davidmouth    1
## 783               Carterton    0
## 784            Rachelhaven    1
## 785            New Timothy    1
## 786      North Jessicaville    1
## 787                Joneston    1
## 788             Staceyfort    0
## 789        South Dianeshire    0
## 790            West Shannon    1
## 791            Micheletown    1
## 792     North Brittanyburgh    0
## 793            Port Jasmine    1
## 794            New Sabrina    1
## 795      Lake Charlottestad    0
## 796        West Rhondamouth    1
## 797             North Debra    1
## 798          Villanuevastad    0
## 799        North Jeremyport    1
## 800              Lake Susan    1
## 801               Lake John    1
## 802            Courtneyfort    1
## 803              Tammymouth    0
## 804            Lake Vanessa    0
## 805             Lake Amanda    1
## 806              Mariemouth    1
## 807     Port Douglasborough    0
## 808         Port Aprilville    0
## 809            Williamsport    1
## 810              Lake Faith    0
## 811              Wendyville    1
## 812              Angelhaven    1
## 813                New Sean    1
## 814               Lake Lisa    0
## 815            Valerieland    0
## 816              New Travis    1
## 817          North Samantha    0
## 818             Holderville    0
## 819            Patrickmouth    0
## 820      Lake Deannaborough    0
## 821            Jeffreymouth    0
```

```
## 822             Davieshaven    0
## 823       Lake Jessicaville    1
## 824        Hernandezchester    1
## 825       North Kennethside    0
## 826             Shelbyport    0
## 827            Williamport    1
## 828              Smithside    0
## 829            Vanessastad    0
## 830              Lisamouth    1
## 831       Lake Rhondaburgh    1
## 832        Cunninghamhaven    1
## 833            Robertstown    1
## 834             South Mark    1
## 835        New Taylorburgh    0
## 836         Port Karenfurt    1
## 837             Carterland    0
## 838             East Shawn    1
## 839        West Derekmouth    1
## 840             Brandiland    1
## 841         Cervantesshire    0
## 842       North Debrashire    0
## 843            Deannaville    0
## 844       East Christopher    1
## 845             Rickymouth    1
## 846            Port Dennis    1
## 847          Lake Michelle    1
## 848          East Johnport    0
## 849            Sabrinaview    1
## 850            Kristinfurt    1
## 851            Chapmanland    1
## 852          North Jonathan    1
## 853          Port Christina    1
## 854               Juanport    1
## 855              East Mike    0
## 856       North Angelatown    0
## 857            West Steven    1
## 858              Riggsstad    1
## 859              Davidview    1
## 860      Port Kevinborough    1
## 861            Lawsonshire    1
## 862          Wagnerchester    0
## 863             Daisymouth    0
## 864           North Daniel    1
## 865 Port Jacquelinestad    1
## 866             New Teresa    1
## 867              Henryfort    1
## 868            Lake Joseph    0
## 869          Daviesborough    1
## 870          North Brandon    0
## 871               Adamside    1
## 872              Wademouth    0
## 873          North Raymond    0
## 874           Randolphport    1
## 875          East Troyhaven    0
```

```
## 876             Clarkborough    0
## 877               Josephberg    0
## 878         Lake Jenniferton    1
## 879                Lake Jose    0
## 880              Ashleymouth    0
## 881                Henryland    1
## 882            Lake Danielle    0
## 883              Joshuaburgh    1
## 884         South Jeanneport    0
## 885                New Nathan    1
## 886                Jonesshire    0
## 887                Mariahview    1
## 888            New Julianberg    1
## 889                Randyshire    1
## 890                Philipberg    1
## 891              West Dennis    0
## 892             Richardshire    1
## 893                Lake James    0
## 894            Austinborough    0
## 895            Alexandrafort    1
## 896              Melissastad    1
## 897            Gonzalezburgh    1
## 898            Port Jennifer    0
## 899               Chrismouth    0
## 900                Port Beth    0
## 901              West David    0
## 902             Fraziershire    0
## 903              Robertfurt    0
## 904             South Pamela    0
## 905         North Laurenview    0
## 906            Campbellstad    1
## 907           Port Derekberg    0
## 908              West Andrew    0
## 909               West Randy    0
## 910        South Christopher    0
## 911        Lake Michellebury    1
## 912               Zacharyton    0
## 913               West James    1
## 914               Millerview    1
## 915             Hawkinsbury    1
## 916            Elizabethport    1
## 917              West Amanda    1
## 918                 Wadestad    1
## 919            Mauriceshire    1
## 920           West Arielstad    1
## 921                Adamsstad    0
## 922              Lake James    1
## 923            Blairborough    1
## 924           New Marcusbury    0
## 925              Evansville    1
## 926           Huffmanchester    0
## 927              New Cynthia    0
## 928              Joshuamouth    0
## 929            West Benjamin    0
```

```
## 930            Williamsfort    0
## 931           North Tiffany    0
## 932             Edwardsport    0
## 933           Lake Evantown    0
## 934             South Henry    1
## 935             Harmonhaven    1
## 936          West Gregburgh    0
## 937              Hansenland    0
## 938       Port Michaelmouth    0
## 939               Tylerport    0
## 940              West Lacey    1
## 941     North Jenniferburgh    1
## 942        South Davidhaven    0
## 943       North Charlesbury    1
## 944            Jonathanland    0
## 945          North Virginia    0
## 946             West Tanner    0
## 947              Jonesmouth    1
## 948              Port Jason    1
## 949           West Annefort    1
## 950              East Jason    0
## 951            North Cassie    0
## 952              Hintonport    1
## 953                New James    1
## 954           North Destiny    0
## 955         Mclaughlinbury    0
## 956     West Gabriellamouth    0
## 957             Alvarezland    0
## 958                New Julie    0
## 959         North Frankstad    1
## 960             Claytonside    1
## 961              Melanieton    0
## 962        Lake Michaelport    0
## 963      East Benjaminville    0
## 964          Garrettborough    1
## 965        Port Raymondfort    0
## 966              Waltertown    0
## 967             Cameronberg    1
## 968              Kaylashire    1
## 969              Fosterside    0
## 970                Davidstad    0
## 971              Lake Tracy    0
## 972             Taylormouth    1
## 973              Dianaville    0
## 974           Collinsburgh    0
## 975              Port Rachel    1
## 976           South Rebecca    1
## 977         Port Joshuafort    1
## 978            Robinsontown    1
## 979                 Beckton    0
## 980          New Frankshire    1
## 981        North Derekville    1
## 982              West Sydney    0
## 983            Lake Matthew    0
```

```
## 984         Lake Zacharyfurt    1
## 985             Lindsaymouth    1
## 986                Sarahland    0
## 987              Port Julie    1
## 988             Michaelshire    1
## 989                 Sarafurt    1
## 990             South Denise    0
## 991              North Katie    1
## 992              Mauricefurt    1
## 993              New Patrick    0
## 994             Edwardsmouth    1
## 995             Nicholasland    0
## 996                Duffystad    1
## 997              New Darlene    1
## 998            South Jessica    1
## 999              West Steven    0
## 1000             Ronniemouth    0
##                                                    Country           Timestamp
## 1                                                  Tunisia 2016-03-27 00:53:11
## 2                                                    Nauru 2016-04-04 01:39:02
## 3                                               San Marino 2016-03-13 20:35:42
## 4                                                    Italy 2016-01-10 02:31:19
## 5                                                  Iceland 2016-06-03 03:36:18
## 6                                                   Norway 2016-05-19 14:30:17
## 7                                                  Myanmar 2016-01-28 20:59:32
## 8                                                Australia 2016-03-07 01:40:15
## 9                                                  Grenada 2016-04-18 09:33:42
## 10                                                   Ghana 2016-07-11 01:42:51
## 11                                                   Qatar 2016-03-16 20:19:01
## 12                                                 Burundi 2016-05-08 08:10:10
## 13                                                   Egypt 2016-06-03 01:14:41
## 14                                Bosnia and Herzegovina 2016-04-20 21:49:22
## 15                                             Barbados 2016-03-24 09:31:49
## 16                                               Spain 2016-03-09 03:41:30
## 17                                Palestinian Territory 2016-01-30 19:20:41
## 18                                           Afghanistan 2016-05-02 07:00:58
## 19   British Indian Ocean Territory (Chagos Archipelago) 2016-02-13 07:53:55
## 20                                     Russian Federation 2016-02-27 04:43:07
## 21                                               Cameroon 2016-01-05 07:52:48
## 22                                               Cameroon 2016-03-18 13:22:35
## 23                                                 Burundi 2016-05-20 08:49:33
## 24                                                   Korea 2016-03-23 09:43:43
## 25                                                 Tokelau 2016-06-13 17:27:09
## 26                                                  Monaco 2016-05-27 15:25:52
## 27                                                  Tuvalu 2016-02-08 10:46:14
## 28                                                  Greece 2016-07-19 08:32:10
## 29                                   British Virgin Islands 2016-04-14 05:08:35
## 30                               Bouvet Island (Bouvetoya) 2016-01-27 12:38:16
## 31                                                    Peru 2016-07-02 20:23:15
## 32                                                   Aruba 2016-03-01 22:13:37
## 33                                                Maldives 2016-07-15 05:05:14
## 34                                                 Senegal 2016-01-14 14:00:09
## 35                                                Dominica 2016-03-15 03:12:25
## 36                                              Luxembourg 2016-04-12 03:26:39
```

```
## 37                                    Montenegro 2016-04-07 15:18:10
## 38                                       Ukraine 2016-02-09 05:28:18
## 39                                  Saint Helena 2016-05-07 17:11:49
## 40                                       Liberia 2016-03-11 06:49:10
## 41                             Russian Federation 2016-04-27 09:27:58
## 42                                       Tunisia 2016-04-16 11:53:43
## 43                                    Turkmenistan 2016-05-08 15:38:46
## 44                                  Saint Helena 2016-02-08 00:23:38
## 45                                         Niger 2016-02-11 13:26:22
## 46                                    Turkmenistan 2016-02-17 13:16:33
## 47                                         Qatar 2016-02-26 22:46:43
## 48                                     Sri Lanka 2016-06-08 18:54:01
## 49                           Trinidad and Tobago 2016-01-08 09:32:26
## 50                                         Italy 2016-04-25 11:01:54
## 51                        British Virgin Islands 2016-04-04 07:07:46
## 52                                United Kingdom 2016-05-03 21:19:58
## 53                                 Guinea-Bissau 2016-01-17 09:31:36
## 54                                    Micronesia 2016-03-02 04:57:51
## 55                                        Turkey 2016-02-14 07:36:58
## 56                                       Croatia 2016-04-07 03:56:16
## 57                                        Israel 2016-02-17 11:42:00
## 58                    Svalbard & Jan Mayen Islands 2016-04-10 00:13:47
## 59                                    Azerbaijan 2016-02-14 17:05:15
## 60                                          Iran 2016-05-26 22:49:47
## 61                                       Burundi 2016-04-30 08:07:13
## 62          Saint Vincent and the Grenadines 2016-06-15 05:30:13
## 63                                       Burundi 2016-03-09 14:45:33
## 64                                      Bulgaria 2016-03-31 20:55:22
## 65                             Christmas Island 2016-06-03 00:55:23
## 66                                        Canada 2016-03-10 23:36:03
## 67                                        Rwanda 2016-01-08 00:17:27
## 68                  Turks and Caicos Islands 2016-06-05 22:11:34
## 69                                       Tunisia 2016-01-16 11:35:01
## 70                                Norfolk Island 2016-04-22 20:10:22
## 71                       Bouvet Island (Bouvetoya) 2016-02-01 09:00:55
## 72                  Turks and Caicos Islands 2016-07-07 13:37:34
## 73                                Cook Islands 2016-03-08 00:37:54
## 74                                        Turkey 2016-05-10 17:39:06
## 75                                     Guatemala 2016-04-06 11:24:21
## 76                                  Cote d'Ivoire 2016-04-01 16:21:05
## 77                                  Faroe Islands 2016-01-05 04:18:46
## 78                                         Qatar 2016-05-20 21:31:24
## 79                                       Ireland 2016-02-03 07:59:16
## 80                                       Ukraine 2016-02-17 21:55:29
## 81                                       Moldova 2016-01-30 16:10:04
## 82                                     Nicaragua 2016-05-15 14:41:49
## 83                                    Montserrat 2016-01-05 17:56:52
## 84                                    Timor-Leste 2016-04-19 07:34:28
## 85                       Bouvet Island (Bouvetoya) 2016-03-15 15:49:14
## 86                                   Puerto Rico 2016-06-12 15:25:44
## 87                   Central African Republic 2016-07-01 04:41:57
## 88                                     Venezuela 2016-05-08 12:12:04
## 89                                     Australia 2016-03-14 23:13:11
## 90                           Wallis and Futuna 2016-05-25 00:19:57
```

```
## 91                                          Jersey 2016-05-13 11:51:10
## 92                                     Puerto Rico 2016-02-20 20:47:05
## 93                                           Samoa 2016-05-22 20:49:37
## 94                                          Greece 2016-04-10 02:02:36
## 95  Antarctica (the territory South of 60 deg S) 2016-02-28 06:41:44
## 96                                         Albania 2016-07-08 21:18:32
## 97                                       Hong Kong 2016-04-19 15:14:58
## 98                                       Lithuania 2016-01-08 22:47:10
## 99                                           Egypt 2016-03-28 08:46:26
## 100                                     Bangladesh 2016-07-02 14:57:53
## 101                                  Western Sahara 2016-07-03 09:22:30
## 102                                          Serbia 2016-06-01 09:27:34
## 103                                        Maldives 2016-07-09 14:55:36
## 104                                  Czech Republic 2016-02-09 22:04:54
## 105                                        Guernsey 2016-06-10 11:31:33
## 106                                        Tanzania 2016-02-14 03:50:52
## 107                                           Bhutan 2016-07-05 17:17:49
## 108                                Christmas Island 2016-04-28 05:50:25
## 109                                          Guinea 2016-04-03 05:10:31
## 110                                      Micronesia 2016-03-09 14:57:11
## 111                                      Madagascar 2016-01-16 23:37:51
## 112                                         Lebanon 2016-07-03 04:33:41
## 113                                         Eritrea 2016-03-14 06:46:14
## 114                                          Guyana 2016-01-09 05:44:56
## 115                            Trinidad and Tobago 2016-02-11 04:37:34
## 116                                          Jersey 2016-06-22 07:33:21
## 117                           United Arab Emirates 2016-07-13 16:12:24
## 118                                      Martinique 2016-07-23 11:46:28
## 119                                         Somalia 2016-07-13 04:10:53
## 120                                           Bhutan 2016-06-11 18:32:12
## 121                                          Greece 2016-05-08 12:51:00
## 122                                           Benin 2016-04-07 16:02:02
## 123                                Papua New Guinea 2016-02-04 13:30:32
## 124                                      Uzbekistan 2016-02-26 19:48:23
## 125                                    South Africa 2016-06-21 13:15:21
## 126                                           Egypt 2016-05-17 04:27:31
## 127                                         Hungary 2016-04-18 15:54:33
## 128                  Falkland Islands (Malvinas) 2016-04-03 10:07:56
## 129                                        Dominica 2016-04-04 21:30:46
## 130                                          Jersey 2016-07-06 16:00:33
## 131                                       Lithuania 2016-05-04 09:00:24
## 132                                     Saint Martin 2016-06-13 18:50:00
## 133                                             Cuba 2016-01-03 16:01:40
## 134        United States Minor Outlying Islands 2016-01-14 00:23:10
## 135                                           Belize 2016-01-12 10:07:29
## 136                                           Belize 2016-04-16 12:09:25
## 137  Antarctica (the territory South of 60 deg S) 2016-05-13 06:09:28
## 138          Saint Vincent and the Grenadines 2016-03-27 23:59:06
## 139                                         Kuwait 2016-02-03 23:47:56
## 140                                        Thailand 2016-04-18 11:23:05
## 141                                      Gibraltar 2016-02-05 19:06:01
## 142             Holy See (Vatican City State) 2016-03-21 18:46:41
## 143                                           Korea 2016-06-14 11:59:58
## 144                                    Saint Helena 2016-02-06 23:08:57
```

```
## 145                          Turks and Caicos Islands 2016-03-12 01:39:19
## 146                                    Czech Republic 2016-01-26 03:56:18
## 147                                       Netherlands 2016-02-07 08:02:31
## 148                                           Belarus 2016-05-05 07:58:22
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## 577                              Antigua and Barbuda 2016-02-03 05:47:09
## 578                                     Turkmenistan 2016-01-02 09:30:11
## 579                                         Honduras 2016-01-04 07:28:43
## 580                                       Seychelles 2016-01-07 21:21:50
## 581                                           Cyprus 2016-07-24 00:22:16
## 582                       Saint Pierre and Miquelon 2016-02-13 13:57:53
## 583                                           Poland 2016-05-08 10:25:08
## 584                                           Taiwan 2016-02-17 18:50:57
## 585                                  Cote d'Ivoire 2016-01-22 19:43:53
## 586                                     Micronesia 2016-07-20 13:21:37
## 587                                        Liberia 2016-01-05 20:58:42
## 588                                   Saudi Arabia 2016-01-29 05:39:16
## 589                                          Nepal 2016-06-17 20:18:27
## 590                                          Ghana 2016-02-23 13:55:48
## 591                                           Iran 2016-07-09 11:18:02
## 592                                    New Zealand 2016-03-19 11:09:36
## 593                          Libyan Arab Jamahiriya 2016-01-29 07:14:04
## 594                                      Sri Lanka 2016-06-14 07:02:09
## 595                           United Arab Emirates 2016-05-18 03:19:03
## 596                                      Indonesia 2016-01-30 09:54:03
## 597                 Saint Vincent and the Grenadines 2016-04-25 16:58:50
## 598                                       Mongolia 2016-01-14 16:30:38
## 599                                       Honduras 2016-07-06 05:34:52
## 600                             Papua New Guinea 2016-04-07 10:51:05
## 601                              Kyrgyz Republic 2016-04-17 05:08:52
## 602                                      Ethiopia 2016-01-28 17:03:54
## 603                                        Rwanda 2016-02-18 22:42:33
## 604                              Kyrgyz Republic 2016-06-24 21:09:58
## 605                                       Grenada 2016-06-20 04:24:41
## 606                                          Togo 2016-02-14 16:33:29
## 607                                      Pakistan 2016-02-27 13:51:44
## 608                  Falkland Islands (Malvinas) 2016-05-07 15:16:07
## 609                                        Jersey 2016-03-16 20:10:53
## 610                                 Cayman Islands 2016-06-26 02:06:59
## 611                                  South Africa 2016-07-17 14:26:04
## 612                                    Micronesia 2016-01-28 16:42:36
## 613                                    Tajikistan 2016-06-16 18:04:51
## 614                                       Bolivia 2016-06-19 23:21:38
## 615                                      Cameroon 2016-05-24 17:42:58
## 616                                       Ecuador 2016-03-01 22:06:37
## 617                                        Zambia 2016-01-31 08:50:38
## 618                                 Guinea-Bissau 2016-04-30 15:27:22
## 619                                    Micronesia 2016-01-13 20:38:35
## 620                                       Bahamas 2016-03-30 16:15:59
## 621                                    Cape Verde 2016-04-29 18:53:43
## 622                               French Polynesia 2016-06-14 19:48:34
## 623                                   Saudi Arabia 2016-07-15 15:43:36
## 624                                         France 2016-03-24 05:38:01
## 625                                        Burundi 2016-04-26 20:57:48
## 626                                         Latvia 2016-01-12 03:28:31
## 627                                        Morocco 2016-04-09 23:26:42
## 628                                      Venezuela 2016-03-28 09:15:58
## 629                                          Palau 2016-06-23 11:05:01
## 630                                    Isle of Man 2016-01-24 01:53:14
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## 631                                        Peru 2016-04-15 10:18:55
## 632                                     Belgium 2016-04-26 13:13:20
## 633                                     Croatia 2016-05-16 23:21:06
## 634                                      France 2016-01-18 02:51:13
## 635                                    Slovenia 2016-06-20 08:34:46
## 636                                        Peru 2016-07-18 04:53:22
## 637                                     Belarus 2016-07-01 01:12:04
## 638                                     Bolivia 2016-03-07 22:51:00
## 639                                       Benin 2016-05-02 15:31:28
## 640                         Wallis and Futuna 2016-07-23 06:18:51
## 641                                  Azerbaijan 2016-06-12 03:11:04
## 642                                    Mongolia 2016-02-15 20:41:05
## 643                                     Denmark 2016-01-23 01:42:28
## 644                       Russian Federation 2016-02-26 01:18:44
## 645                                      Brazil 2016-01-11 02:07:14
## 646                                    Ethiopia 2016-04-04 13:56:14
## 647                                      Guyana 2016-01-14 09:27:59
## 648                                    Ethiopia 2016-04-25 03:18:45
## 649                                   Mauritius 2016-03-05 23:02:11
## 650                                    Djibouti 2016-01-06 21:43:22
## 651                      Syrian Arab Republic 2016-02-18 03:58:36
## 652                              Saint Martin 2016-04-16 14:15:55
## 653                      Netherlands Antilles 2016-02-24 06:18:11
## 654                                    Greece 2016-06-29 01:19:21
## 655                                 Madagascar 2016-01-05 06:34:20
## 656                                    Senegal 2016-07-16 10:14:04
## 657                                 Burkina Faso 2016-06-17 03:23:13
## 658                               Czech Republic 2016-06-13 11:06:40
## 659 Lao People's Democratic Republic 2016-04-05 08:18:45
## 660                      Netherlands Antilles 2016-04-17 18:38:14
## 661                                      Qatar 2016-02-03 16:54:33
## 662                                    Andorra 2016-04-18 21:07:28
## 663                                Liechtenstein 2016-06-18 22:31:22
## 664                                      China 2016-03-12 07:18:36
## 665                                    Vietnam 2016-01-15 01:20:05
## 666                                 Tajikistan 2016-02-12 10:39:10
## 667                                    Eritrea 2016-02-16 02:29:03
## 668                                     Monaco 2016-04-04 21:23:13
## 669                                     Israel 2016-04-24 01:48:21
## 670                                    Hungary 2016-05-20 00:00:48
## 671                                  Singapore 2016-05-15 03:10:50
## 672                                       Cuba 2016-01-07 23:02:43
## 673                                    Reunion 2016-07-19 12:05:58
## 674                                     Zambia 2016-04-04 00:02:20
## 675                                      Gabon 2016-06-10 04:21:57
## 676                                   Dominica 2016-03-11 14:50:56
## 677                                    Bahamas 2016-01-14 20:58:10
## 678                                    Tokelau 2016-06-22 05:22:58
## 679                                 Turkmenistan 2016-03-19 08:00:58
## 680                                       Belgium 2016-04-15 15:07:17
## 681                                  French Guiana 2016-03-28 02:29:19
## 682                                     Martinique 2016-01-22 15:03:25
## 683                                French Polynesia 2016-06-25 17:33:35
## 684                                       Ecuador 2016-03-04 14:33:38
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## 685                                        Puerto Rico 2016-06-29 02:48:44
## 686                                United Arab Emirates 2016-06-18 01:42:37
## 687                                        Burkina Faso 2016-01-31 09:57:34
## 688                                          Luxembourg 2016-05-22 15:17:25
## 689                                             Jamaica 2016-07-22 11:05:10
## 690 Antarctica (the territory South of 60 deg S) 2016-07-13 14:05:22
## 691                                               China 2016-02-11 11:50:26
## 692                                      Western Sahara 2016-03-16 20:33:10
## 693                                             Lebanon 2016-04-25 19:31:39
## 694                                           Hong Kong 2016-07-14 22:43:29
## 695                                             Vanuatu 2016-05-30 08:02:35
## 696                                             Vanuatu 2016-02-14 11:36:08
## 697                                           Guatemala 2016-01-23 21:15:57
## 698                                           Greenland 2016-07-18 02:51:19
## 699                                Syrian Arab Republic 2016-02-10 08:21:13
## 700                                        Saint Helena 2016-01-04 06:37:15
## 701                                             Lebanon 2016-06-05 21:38:22
## 702                                               Malta 2016-06-01 03:17:50
## 703                                  Christmas Island 2016-03-06 06:51:23
## 704                                             Ukraine 2016-02-26 19:35:54
## 705                                               Malta 2016-07-13 14:30:14
## 706                                               Italy 2016-06-29 07:20:46
## 707                                               Japan 2016-03-15 06:54:21
## 708                                           Mauritius 2016-06-11 06:47:55
## 709                                              Turkey 2016-07-17 13:22:43
## 710                                             Namibia 2016-02-14 14:38:01
## 711                                               China 2016-05-04 05:01:37
## 712                                         Netherlands 2016-05-20 12:17:28
## 713                                           Gibraltar 2016-01-26 02:47:17
## 714                                               Congo 2016-07-07 18:07:19
## 715                                             Senegal 2016-01-11 12:46:31
## 716                                             Hungary 2016-05-12 12:11:12
## 717                                Pitcairn Islands 2016-02-28 23:21:22
## 718                  Slovakia (Slovak Republic) 2016-05-03 16:02:50
## 719                United States Virgin Islands 2016-03-15 20:19:20
## 720                                          Monaco 2016-07-23 05:21:39
## 721                                        Portugal 2016-03-11 10:01:23
## 722                                          Turkey 2016-02-11 20:45:46
## 723                                          Uganda 2016-07-06 23:09:07
## 724                                Norfolk Island 2016-03-22 19:14:47
## 725                                            Niue 2016-05-26 13:28:36
## 726                                         Ukraine 2016-06-18 19:10:14
## 727                                         Vanuatu 2016-03-20 07:12:52
## 728          United States Minor Outlying Islands 2016-06-03 07:00:36
## 729                                         Armenia 2016-02-03 15:15:42
## 730                                          Sweden 2016-05-03 16:55:02
## 731                                       Timor-Leste 2016-06-20 02:25:12
## 732                  French Southern Territories 2016-07-10 19:15:52
## 733                                         Finland 2016-01-04 04:00:35
## 734              Saint Vincent and the Grenadines 2016-04-20 16:49:15
## 735                                         Senegal 2016-01-23 13:14:18
## 736                                         Burundi 2016-01-04 22:27:25
## 737                                         Bahamas 2016-04-08 22:40:55
## 738                                          Sweden 2016-01-05 11:53:17
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## 739                         Svalbard & Jan Mayen Islands 2016-03-17 22:24:02
## 740                                                Tonga 2016-06-29 04:23:10
## 741                                                Korea 2016-05-25 19:45:16
## 742                                      Kyrgyz Republic 2016-06-17 23:19:38
## 743                                           Costa Rica 2016-04-24 07:20:16
## 744                                         Liechtenstein 2016-03-18 13:00:12
## 745                                             Zimbabwe 2016-04-28 21:58:25
## 746                                           Costa Rica 2016-02-12 08:46:15
## 747                                              Hungary 2016-07-11 13:23:37
## 748                                                 Fiji 2016-01-29 00:45:19
## 749                                          Netherlands 2016-01-05 16:26:44
## 750                                               Sweden 2016-06-20 08:22:09
## 751                                             Barbados 2016-02-06 17:48:28
## 752                                             Paraguay 2016-06-22 17:19:09
## 753                                                Italy 2016-04-16 05:24:33
## 754                                              Belarus 2016-01-17 05:07:11
## 755 South Georgia and the South Sandwich Islands 2016-07-08 22:30:10
## 756                                             Anguilla 2016-03-11 00:05:48
## 757                                         Sierra Leone 2016-06-10 00:35:15
## 758                                          Saint Martin 2016-01-04 00:44:57
## 759                                               Uganda 2016-01-01 15:14:24
## 760                                         Saudi Arabia 2016-07-10 17:24:51
## 761                                            Greenland 2016-03-27 19:50:11
## 762                                            Venezuela 2016-04-29 13:38:19
## 763                                              Liberia 2016-01-08 18:13:43
## 764                                                 Mali 2016-06-05 07:54:30
## 765                           Bosnia and Herzegovina 2016-06-29 10:50:45
## 766                               Brunei Darussalam 2016-04-24 13:46:10
## 767 South Georgia and the South Sandwich Islands 2016-02-14 04:14:13
## 768                                      Czech Republic 2016-06-15 05:43:02
## 769                                         El Salvador 2016-07-06 12:04:29
## 770                                              Tokelau 2016-03-31 13:54:51
## 771                                               France 2016-06-21 00:52:47
## 772                                                Gabon 2016-05-27 05:23:26
## 773                                             Bulgaria 2016-01-17 18:45:55
## 774                                         Burkina Faso 2016-04-07 20:34:42
## 775                                              Mayotte 2016-05-02 18:37:01
## 776                                              Somalia 2016-06-04 17:24:07
## 777                                              Albania 2016-04-07 18:52:57
## 778                                              Bolivia 2016-06-10 22:21:10
## 779                                               Jersey 2016-05-19 06:37:38
## 780                           British Virgin Islands 2016-03-28 23:01:24
## 781                                         Saint Helena 2016-01-21 22:51:34
## 782                           Bosnia and Herzegovina 2016-03-12 06:05:12
## 783                                              India 2016-06-04 09:13:29
## 784                                            Georgia 2016-05-24 10:16:38
## 785       United States Minor Outlying Islands 2016-03-25 06:36:53
## 786                                           Kiribati 2016-04-22 00:28:18
## 787                                              Ghana 2016-03-22 04:13:35
## 788                                              Samoa 2016-01-14 08:27:04
## 789                                               Iran 2016-04-14 21:37:49
## 790                                         Costa Rica 2016-05-31 17:50:15
## 791                     Northern Mariana Islands 2016-03-17 06:25:47
## 792                                         Liechtenstein 2016-04-13 07:07:36
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## 793                                        Grenada 2016-02-03 22:11:13
## 794                                         Poland 2016-02-02 19:59:17
## 795                                          Kenya 2016-04-07 20:38:02
## 796                                           Iran 2016-03-15 19:35:19
## 797                                        Belgium 2016-03-11 12:39:19
## 798                                        Namibia 2016-05-17 18:06:46
## 799                                         Cyprus 2016-02-28 23:10:32
## 800                                          Japan 2016-03-02 06:35:08
## 801                                       Zimbabwe 2016-02-27 08:52:50
## 802                                        Andorra 2016-03-14 04:34:35
## 803                                     Luxembourg 2016-03-10 15:07:44
## 804                                         Cyprus 2016-05-01 08:27:12
## 805                                         Turkey 2016-06-12 11:17:25
## 806                                      Hong Kong 2016-05-28 12:20:15
## 807                                    Netherlands 2016-03-18 09:08:39
## 808          United States Virgin Islands 2016-05-26 06:03:57
## 809                        Marshall Islands 2016-07-06 03:40:17
## 810                         Western Sahara 2016-04-29 14:10:00
## 811 Saint Vincent and the Grenadines 2016-03-05 20:53:19
## 812          United States of America 2016-05-30 08:35:54
## 813                                         Angola 2016-04-10 06:32:11
## 814                                  Cayman Islands 2016-01-20 02:31:36
## 815                                       Swaziland 2016-07-20 21:53:42
## 816                              Wallis and Futuna 2016-01-17 04:12:30
## 817                                       Zimbabwe 2016-02-24 07:13:00
## 818                                           Chad 2016-03-26 19:37:46
## 819                                    Saint Martin 2016-06-04 09:25:27
## 820                                         Rwanda 2016-04-22 07:48:33
## 821                                        Moldova 2016-03-31 08:53:43
## 822                                          Gabon 2016-04-16 08:36:08
## 823                                        Denmark 2016-05-12 20:57:10
## 824          Svalbard & Jan Mayen Islands 2016-05-07 21:32:51
## 825                                         Poland 2016-06-25 00:33:23
## 826                                           Fiji 2016-03-23 05:27:35
## 827                                    Philippines 2016-03-04 13:47:47
## 828                                        Vietnam 2016-06-14 12:08:10
## 829                                         Jersey 2016-05-11 19:13:42
## 830                                      Indonesia 2016-01-21 23:33:22
## 831                        Palestinian Territory 2016-01-15 19:45:33
## 832                                         Latvia 2016-04-23 09:42:08
## 833                                          Malta 2016-05-23 08:06:24
## 834                                    Afghanistan 2016-02-27 15:04:52
## 835                                        Austria 2016-02-23 17:37:46
## 836                                      Micronesia 2016-03-17 22:59:46
## 837                                         Mexico 2016-02-28 03:34:35
## 838                                          Chile 2016-03-15 14:33:12
## 839                                           Cuba 2016-03-03 20:20:32
## 840                                        Belarus 2016-04-06 14:16:52
## 841                                         Malawi 2016-05-01 09:23:25
## 842                                    Afghanistan 2016-05-30 08:02:27
## 843                                     Luxembourg 2016-04-04 11:39:51
## 844                                   South Africa 2016-04-06 23:10:40
## 845                                          Nepal 2016-04-26 21:45:50
## 846                                          Spain 2016-05-25 00:34:59
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## 847                                 Hong Kong 2016-02-11 16:45:41
## 848             Slovakia (Slovak Republic) 2016-01-30 00:05:37
## 849                           Cayman Islands 2016-07-12 10:56:21
## 850                                   Uganda 2016-04-23 03:46:34
## 851                                  Vanuatu 2016-04-16 10:36:49
## 852                                 Anguilla 2016-03-11 13:07:30
## 853                              Switzerland 2016-03-02 15:39:02
## 854                                 Zimbabwe 2016-07-13 21:31:14
## 855                                  Uruguay 2016-05-29 18:12:00
## 856                                  Liberia 2016-05-10 17:13:47
## 857                                    Egypt 2016-05-07 08:39:47
## 858                                   Greece 2016-01-17 13:27:13
## 859                                  Bahrain 2016-03-09 06:22:03
## 860                                Sri Lanka 2016-04-05 18:02:49
## 861                               Kazakhstan 2016-04-01 07:37:18
## 862                                Greenland 2016-02-15 16:18:49
## 863                                  Moldova 2016-03-08 05:12:57
## 864                                   Poland 2016-02-09 23:38:30
## 865                                 Anguilla 2016-06-17 09:38:22
## 866           Central African Republic 2016-06-01 12:27:17
## 867                                   Mexico 2016-02-26 23:44:44
## 868                                     Togo 2016-03-11 09:58:32
## 869                                  Armenia 2016-04-28 02:55:10
## 870                                Nicaragua 2016-04-12 04:22:42
## 871                                  Eritrea 2016-02-10 20:43:38
## 872                                   Canada 2016-05-01 23:21:53
## 873                                  Croatia 2016-03-24 17:48:31
## 874                              Switzerland 2016-04-22 19:45:19
## 875                                    Yemen 2016-03-09 12:10:08
## 876                                  Tokelau 2016-03-30 05:29:38
## 877                                  Armenia 2016-01-24 13:41:38
## 878                          Equatorial Guinea 2016-07-15 09:42:19
## 879                                 Barbados 2016-06-07 05:41:16
## 880                            American Samoa 2016-05-31 23:32:00
## 881                               Saint Lucia 2016-05-14 14:49:05
## 882                                   Algeria 2016-01-10 20:18:21
## 883                              Turkmenistan 2016-02-21 16:57:59
## 884                                   Mayotte 2016-05-23 00:32:54
## 885                              South Africa 2016-07-21 20:30:06
## 886                                     Macao 2016-05-15 18:44:50
## 887                                    France 2016-06-30 00:43:40
## 888                          Equatorial Guinea 2016-02-24 06:17:18
## 889                                      Mali 2016-05-30 21:22:22
## 890                                   Mayotte 2016-06-02 04:14:37
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## 892                                Guadeloupe 2016-02-29 18:06:21
## 893                                   Denmark 2016-05-27 12:45:37
## 894                               New Zealand 2016-01-12 21:17:15
## 895                       Netherlands Antilles 2016-01-27 17:08:19
## 896                                   Belarus 2016-06-10 03:56:41
## 897                                    Taiwan 2016-04-09 09:26:39
## 898                               El Salvador 2016-02-26 06:00:16
## 899                                    Taiwan 2016-02-21 23:07:11
## 900                                      Peru 2016-04-29 14:08:26
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## 901                                        Liberia 2016-02-11 17:02:07
## 902                                        Burundi 2016-07-22 07:44:43
## 903                                          Macao 2016-06-26 02:34:15
## 904                                      Venezuela 2016-05-14 23:08:14
## 905                                     Luxembourg 2016-05-24 10:04:39
## 906                                          Italy 2016-02-16 12:05:45
## 907                                     San Marino 2016-03-20 02:44:13
## 908                                     Madagascar 2016-01-31 05:12:44
## 909                                 Norfolk Island 2016-04-01 05:17:28
## 910                                        Vanuatu 2016-02-25 16:33:24
## 911                                        Tunisia 2016-03-21 11:02:49
## 912                                       Paraguay 2016-02-12 05:20:19
## 913                                      Macedonia 2016-06-01 16:10:30
## 914          Heard Island and McDonald Islands 2016-06-16 03:17:45
## 915                                       Ethiopia 2016-03-26 15:28:07
## 916                                    El Salvador 2016-02-16 07:37:28
## 917                                          Niger 2016-02-28 09:31:31
## 918                                    Timor-Leste 2016-05-18 01:00:52
## 919                                        Uruguay 2016-02-21 13:11:08
## 920                                        Somalia 2016-01-05 12:59:07
## 921                                       Malaysia 2016-05-18 00:07:43
## 922                                          Korea 2016-03-06 23:26:44
## 923          Lao People's Democratic Republic 2016-05-19 04:23:41
## 924                                       Bahamas 2016-04-29 20:40:21
## 925                                        Guyana 2016-05-03 01:09:01
## 926                                       Ethiopia 2016-06-27 21:51:47
## 927                         Bosnia and Herzegovina 2016-02-08 07:33:22
## 928                                        Cyprus 2016-02-22 07:04:05
## 929                                     Singapore 2016-03-21 08:13:24
## 930                            Dominican Republic 2016-05-31 00:58:37
## 931                                       Bermuda 2016-01-01 05:31:22
## 932                                       Jamaica 2016-05-27 08:53:51
## 933                              Saint Barthelemy 2016-05-09 07:13:27
## 934                                       Albania 2016-06-27 01:56:36
## 935                                    Mozambique 2016-06-03 04:51:46
## 936                                      Zimbabwe 2016-02-24 00:44:44
## 937                                       Georgia 2016-03-05 12:03:41
## 938                                        Brazil 2016-01-15 22:49:45
## 939                          Syrian Arab Republic 2016-02-12 03:39:09
## 940                         Palestinian Territory 2016-02-19 20:49:27
## 941                                       Grenada 2016-03-12 02:48:18
## 942                                         Ghana 2016-07-23 04:04:42
## 943                          Brunei Darussalam 2016-03-06 09:33:46
## 944                                     Lithuania 2016-02-24 04:11:37
## 945                                      Maldives 2016-02-17 20:22:49
## 946                                       Lesotho 2016-02-02 04:57:50
## 947                                Czech Republic 2016-01-27 16:06:05
## 948                                       Iceland 2016-05-24 09:50:41
## 949                                   Philippines 2016-02-08 22:45:26
## 950                                Cayman Islands 2016-02-12 01:55:38
## 951                                         Haiti 2016-01-11 08:18:12
## 952                                      Colombia 2016-03-03 03:51:27
## 953                                    Luxembourg 2016-05-30 20:08:51
## 954                          United Arab Emirates 2016-04-22 22:01:21
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## 955                                          Ireland 2016-05-25 10:39:28
## 956                                           Canada 2016-02-04 03:10:17
## 957                  Svalbard & Jan Mayen Islands 2016-02-21 20:09:12
## 958                                            Malta 2016-04-28 01:24:34
## 959                                            Sudan 2016-05-18 19:33:51
## 960                                          Ecuador 2016-02-17 11:15:31
## 961                                          Senegal 2016-06-19 23:04:45
## 962                                         Cambodia 2016-02-20 09:54:06
## 963                                          Belarus 2016-01-22 12:58:14
## 964                                           Guyana 2016-02-19 13:26:24
## 965                                             Mali 2016-01-03 07:13:53
## 966                                             Iran 2016-01-03 04:39:47
## 967                                         Bulgaria 2016-04-13 13:04:47
## 968                                      Afghanistan 2016-01-01 03:35:35
## 969                                          Liberia 2016-03-27 08:32:37
## 970                        Netherlands Antilles 2016-07-10 16:25:56
## 971                                        Hong Kong 2016-06-25 04:21:33
## 972                                            Palau 2016-01-27 14:41:10
## 973                                           Malawi 2016-05-16 18:51:59
## 974                                          Uruguay 2016-02-27 20:20:25
## 975                                           Cyprus 2016-02-28 23:54:44
## 976                                           Mexico 2016-06-13 06:11:33
## 977                                            Niger 2016-05-05 11:07:13
## 978                                           France 2016-07-07 12:17:33
## 979                                            Japan 2016-05-24 17:07:08
## 980                                   Norfolk Island 2016-03-30 14:36:55
## 981                                         Bulgaria 2016-05-27 05:54:03
## 982                                       Uzbekistan 2016-01-03 16:30:51
## 983                                           Mexico 2016-06-25 18:17:53
## 984                                Brunei Darussalam 2016-02-24 10:36:43
## 985                                           France 2016-03-03 03:13:48
## 986                                            Yemen 2016-04-21 19:56:24
## 987                         Northern Mariana Islands 2016-04-06 17:26:37
## 988                                           Poland 2016-03-23 12:53:23
## 989                                          Bahrain 2016-02-17 07:00:38
## 990                       Saint Pierre and Miquelon 2016-06-26 07:01:47
## 991                                            Tonga 2016-04-20 13:36:42
## 992                                          Comoros 2016-07-21 16:02:40
## 993                                       Montenegro 2016-03-06 11:36:06
## 994                                      Isle of Man 2016-02-11 23:45:01
## 995                                          Mayotte 2016-04-04 03:57:48
## 996                                          Lebanon 2016-02-11 21:49:00
## 997                            Bosnia and Herzegovina 2016-04-22 02:07:01
## 998                                         Mongolia 2016-02-01 17:24:57
## 999                                       Guatemala 2016-03-24 02:35:54
## 1000                                         Brazil 2016-06-03 21:43:21
##      Clicked.on.Ad           Date.Time Year Month Day Weekday Hour Minute
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## 2                0 2016-04-04 01:39:02 2016     4   4       2    1     39
## 3                0 2016-03-13 20:35:42 2016     3  13       1   20     35
## 4                0 2016-01-10 02:31:19 2016     1  10       1    2     31
## 5                0 2016-06-03 03:36:18 2016     6   3       6    3     36
## 6                0 2016-05-19 14:30:17 2016     5  19       5   14     30
## 7                0 2016-01-28 20:59:32 2016     1  28       5   20     59
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## 882              0 2016-01-10 20:18:21 2016     1  10       1   20     18
## 883              0 2016-02-21 16:57:59 2016     2  21       1   16     57
## 884              1 2016-05-23 00:32:54 2016     5  23       2    0     32
## 885              0 2016-07-21 20:30:06 2016     7  21       5   20     30
## 886              1 2016-05-15 18:44:50 2016     5  15       1   18     44
## 887              1 2016-06-30 00:43:40 2016     6  30       5    0     43
## 888              1 2016-02-24 06:17:18 2016     2  24       4    6     17
## 889              0 2016-05-30 21:22:22 2016     5  30       2   21     22
## 890              1 2016-06-02 04:14:37 2016     6   2       5    4     14
## 891              0 2016-04-18 07:00:38 2016     4  18       2    7      0
## 892              1 2016-02-29 18:06:21 2016     2  29       2   18      6
## 893              1 2016-05-27 12:45:37 2016     5  27       6   12     45
## 894              0 2016-01-12 21:17:15 2016     1  12       3   21     17
## 895              0 2016-01-27 17:08:19 2016     1  27       4   17      8
## 896              0 2016-06-10 03:56:41 2016     6  10       6    3     56
## 897              0 2016-04-09 09:26:39 2016     4   9       7    9     26
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## 902              1 2016-07-22 07:44:43 2016     7  22       6    7     44
## 903              1 2016-06-26 02:34:15 2016     6  26       1    2     34
## 904              0 2016-05-14 23:08:14 2016     5  14       7   23      8
## 905              0 2016-05-24 10:04:39 2016     5  24       3   10      4
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## 914              0 2016-06-16 03:17:45 2016     6  16       5    3     17
## 915              1 2016-03-26 15:28:07 2016     3  26       7   15     28
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## 917              1 2016-02-28 09:31:31 2016     2  28       1    9     31
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## 921              0 2016-05-18 00:07:43 2016     5  18       4    0      7
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## 925              1 2016-05-03 01:09:01 2016     5   3       3    1      9
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## 929              0 2016-03-21 08:13:24 2016     3  21       2    8     13
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## 931              0 2016-01-01 05:31:22 2016     1   1       6    5     31
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## 933              1 2016-05-09 07:13:27 2016     5   9       2    7     13
## 934              1 2016-06-27 01:56:36 2016     6  27       2    1     56
## 935              0 2016-06-03 04:51:46 2016     6   3       6    4     51
## 936              0 2016-02-24 00:44:44 2016     2  24       4    0     44
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## 939              1 2016-02-12 03:39:09 2016     2  12       6    3     39
## 940              0 2016-02-19 20:49:27 2016     2  19       6   20     49
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## 947              0 2016-01-27 16:06:05 2016     1  27       4   16      6
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## 761      11
## 762      19
## 763      43
## 764      30
## 765      45
## 766      10
## 767      13
## 768       2
## 769      29
## 770      51
## 771      47
## 772      26
## 773      55
## 774      42
## 775       1
## 776       7
## 777      57
## 778      10
## 779      38
## 780      24
## 781      34
## 782      12
## 783      29
## 784      38
## 785      53
## 786      18
## 787      35
## 788       4
```

```
## 789      49
## 790      15
## 791      47
## 792      36
## 793      13
## 794      17
## 795       2
## 796      19
## 797      19
## 798      46
## 799      32
## 800       8
## 801      50
## 802      35
## 803      44
## 804      12
## 805      25
## 806      15
## 807      39
## 808      57
## 809      17
## 810       0
## 811      19
## 812      54
## 813      11
## 814      36
## 815      42
## 816      30
## 817       0
## 818      46
## 819      27
## 820      33
## 821      43
## 822       8
## 823      10
## 824      51
## 825      23
## 826      35
## 827      47
## 828      10
## 829      42
## 830      22
## 831      33
## 832       8
## 833      24
## 834      52
## 835      46
## 836      46
## 837      35
## 838      12
## 839      32
## 840      52
## 841      25
## 842      27
```

```
## 843      51
## 844      40
## 845      50
## 846      59
## 847      41
## 848      37
## 849      21
## 850      34
## 851      49
## 852      30
## 853       2
## 854      14
## 855       0
## 856      47
## 857      47
## 858      13
## 859       3
## 860      49
## 861      18
## 862      49
## 863      57
## 864      30
## 865      22
## 866      17
## 867      44
## 868      32
## 869      10
## 870      42
## 871      38
## 872      53
## 873      31
## 874      19
## 875       8
## 876      38
## 877      38
## 878      19
## 879      16
## 880       0
## 881       5
## 882      21
## 883      59
## 884      54
## 885       6
## 886      50
## 887      40
## 888      18
## 889      22
## 890      37
## 891      38
## 892      21
## 893      37
## 894      15
## 895      19
## 896      41
```

```
## 897      39
## 898      16
## 899      11
## 900      26
## 901       7
## 902      43
## 903      15
## 904      14
## 905      39
## 906      45
## 907      13
## 908      44
## 909      28
## 910      24
## 911      49
## 912      19
## 913      30
## 914      45
## 915       7
## 916      28
## 917      31
## 918      52
## 919       8
## 920       7
## 921      43
## 922      44
## 923      41
## 924      21
## 925       1
## 926      47
## 927      22
## 928       5
## 929      24
## 930      37
## 931      22
## 932      51
## 933      27
## 934      36
## 935      46
## 936      44
## 937      41
## 938      45
## 939       9
## 940      27
## 941      18
## 942      42
## 943      46
## 944      37
## 945      49
## 946      50
## 947       5
## 948      41
## 949      26
## 950      38
```

```
## 951      12
## 952      27
## 953      51
## 954      21
## 955      28
## 956      17
## 957      12
## 958      34
## 959      51
## 960      31
## 961      45
## 962       6
## 963      14
## 964      24
## 965      53
## 966      47
## 967      47
## 968      35
## 969      37
## 970      56
## 971      33
## 972      10
## 973      59
## 974      25
## 975      44
## 976      33
## 977      13
## 978      33
## 979       8
## 980      55
## 981       3
## 982      51
## 983      53
## 984      43
## 985      48
## 986      24
## 987      37
## 988      23
## 989      38
## 990      47
## 991      42
## 992      40
## 993       6
## 994       1
## 995      48
## 996       0
## 997       1
## 998      57
## 999      54
## 1000     21
```

```
#Setting outcome variables as categorical. We also notice that the male column is also num which are go

#df$Clicked.on.Ad <- factor(df$Clicked.on.Ad, levels = c(0,1), labels = c("False", "True"))
```

```
df$Clicked.on.Ad <- as.factor(df$Clicked.on.Ad)
df$Male <- as.factor(df$Male)

#str(df)
```

Subseting our dataset to get our variables

```
df_v <- df[, c(1,2,3,4,7,10)]
df_v
```

```
##      Daily.Time.Spent.on.Site Age Area.Income Daily.Internet.Usage Male
## 1                       68.95  35    61833.90                256.09    0
## 2                       80.23  31    68441.85                193.77    1
## 3                       69.47  26    59785.94                236.50    0
## 4                       74.15  29    54806.18                245.89    1
## 5                       68.37  35    73889.99                225.58    0
## 6                       59.99  23    59761.56                226.74    1
## 7                       88.91  33    53852.85                208.36    0
## 8                       66.00  48    24593.33                131.76    1
## 9                       74.53  30    68862.00                221.51    1
## 10                      69.88  20    55642.32                183.82    1
## 11                      47.64  49    45632.51                122.02    0
## 12                      83.07  37    62491.01                230.87    1
## 13                      69.57  48    51636.92                113.12    1
## 14                      79.52  24    51739.63                214.23    0
## 15                      42.95  33    30976.00                143.56    0
## 16                      63.45  23    52182.23                140.64    1
## 17                      55.39  37    23936.86                129.41    0
## 18                      82.03  41    71511.08                187.53    0
## 19                      54.70  36    31087.54                118.39    1
## 20                      74.58  40    23821.72                135.51    1
## 21                      77.22  30    64802.33                224.44    1
## 22                      84.59  35    60015.57                226.54    1
## 23                      41.49  52    32635.70                164.83    0
## 24                      87.29  36    61628.72                209.93    1
## 25                      41.39  41    68962.32                167.22    0
## 26                      78.74  28    64828.00                204.79    1
## 27                      48.53  28    38067.08                134.14    1
## 28                      51.95  52    58295.82                129.23    0
## 29                      70.20  34    32708.94                119.20    0
## 30                      76.02  22    46179.97                209.82    0
## 31                      67.64  35    51473.28                267.01    1
## 32                      86.41  28    45593.93                207.48    1
## 33                      59.05  57    25583.29                169.23    1
## 34                      55.60  23    30227.98                212.58    0
## 35                      57.64  57    45580.92                133.81    1
## 36                      84.37  30    61389.50                201.58    0
## 37                      62.26  53    56770.79                125.45    1
## 38                      65.82  39    76435.30                221.94    0
## 39                      50.43  46    57425.87                119.32    1
## 40                      38.93  39    27508.41                162.08    0
## 41                      84.98  29    57691.95                202.61    0
## 42                      64.24  30    59784.18                252.36    0
```

```
## 43                82.52  32    66572.39              198.11    1
## 44                81.38  31    64929.61              212.30    0
## 45                80.47  25    57519.64              204.86    0
## 46                37.68  52    53575.48              172.83    1
## 47                69.62  20    50983.75              202.25    1
## 48                85.40  43    67058.72              198.72    0
## 49                44.33  37    52723.34              123.72    1
## 50                48.01  46    54286.10              119.93    0
## 51                73.18  23    61526.25              196.71    1
## 52                79.94  28    58526.04              225.29    0
## 53                33.33  45    53350.11              193.58    1
## 54                50.33  50    62657.53              133.20    1
## 55                62.31  47    62722.57              119.30    0
## 56                80.60  31    67479.62              177.55    0
## 57                65.19  36    75254.88              150.61    0
## 58                44.98  49    52336.64              129.31    0
## 59                77.63  29    56113.37              239.22    0
## 60                41.82  41    24852.90              156.36    0
## 61                85.61  27    47708.42              183.43    0
## 62                85.84  34    64654.66              192.93    1
## 63                72.08  29    71228.44              169.50    0
## 64                86.06  32    61601.05              178.92    1
## 65                45.96  45    66281.46              141.22    0
## 66                62.42  29    73910.90              198.50    1
## 67                63.89  40    51317.33              105.22    0
## 68                35.33  32    51510.18              200.22    0
## 69                75.74  25    61005.87              215.25    1
## 70                78.53  34    32536.98              131.72    0
## 71                46.13  31    60248.97              139.01    0
## 72                69.01  46    74543.81              222.63    0
## 73                55.35  39    75509.61              153.17    1
## 74                33.21  43    42650.32              167.07    1
## 75                38.46  42    58183.04              145.98    1
## 76                64.10  22    60465.72              215.93    0
## 77                49.81  35    57009.76              120.06    1
## 78                82.73  33    54541.56              238.99    1
## 79                56.14  38    32689.04              113.53    1
## 80                55.13  45    55605.92              111.71    0
## 81                78.11  27    63296.87              209.25    1
## 82                73.46  28    65653.47              222.75    1
## 83                56.64  38    61652.53              115.91    0
## 84                68.94  54    30726.26              138.71    0
## 85                70.79  31    74535.94              184.10    0
## 86                57.76  41    47861.93              105.15    0
## 87                77.51  36    73600.28              200.55    0
## 88                52.70  34    58543.94              118.60    1
## 89                57.70  34    42696.67              109.07    0
## 90                56.89  37    37334.78              109.29    1
## 91                69.90  43    71392.53              138.35    0
## 92                55.79  24    59550.05              149.67    0
## 93                70.03  26    64264.25              227.72    1
## 94                50.08  40    64147.86              125.85    1
## 95                43.67  31    25686.34              166.29    1
## 96                72.84  26    52968.22              238.63    0
```

```
## 97                  45.72  36    22473.08              154.02    1
## 98                  39.94  41    64927.19              156.30    0
## 99                  35.61  46    51868.85              158.22    0
## 100                 79.71  34    69456.83              211.65    1
## 101                 41.49  53    31947.65              169.18    0
## 102                 63.60  23    51864.77              235.28    1
## 103                 89.91  40    59593.56              194.23    0
## 104                 68.18  21    48376.14              218.17    1
## 105                 66.49  20    56884.74              202.16    0
## 106                 80.49  40    67186.54              229.12    1
## 107                 72.23  25    46557.92              241.03    1
## 108                 42.39  42    66541.05              150.99    0
## 109                 47.53  30    33258.09              135.18    0
## 110                 74.02  32    72272.90              210.54    0
## 111                 66.63  60    60333.38              176.98    0
## 112                 63.24  53    65229.13              235.78    1
## 113                 71.00  22    56067.38              211.87    0
## 114                 46.13  46    37838.72              123.64    1
## 115                 69.00  32    72683.35              221.21    1
## 116                 76.99  31    56729.78              244.34    1
## 117                 72.60  55    66815.54              162.95    0
## 118                 61.88  42    60223.52              112.19    1
## 119                 84.45  50    29727.79              207.18    0
## 120                 88.97  45    49269.98              152.49    0
## 121                 86.19  31    57669.41              210.26    1
## 122                 49.58  26    56791.75              231.94    0
## 123                 77.65  27    63274.88              212.79    0
## 124                 37.75  36    35466.80              225.24    0
## 125                 62.33  43    68787.09              127.11    0
## 126                 79.57  31    61227.59              230.93    0
## 127                 80.31  44    56366.88              127.07    0
## 128                 89.05  45    57868.44              206.98    0
## 129                 70.41  27    66618.21              223.03    0
## 130                 67.36  37    73104.47              233.56    0
## 131                 46.98  50    21644.91              175.37    0
## 132                 41.67  36    53817.02              132.55    0
## 133                 51.24  36    76368.31              176.73    0
## 134                 75.70  29    67633.44              215.44    0
## 135                 43.49  47    50335.46              127.83    0
## 136                 49.89  39    17709.98              160.03    1
## 137                 38.37  36    41229.16              140.46    0
## 138                 38.52  38    42581.23              137.28    1
## 139                 71.89  23    61617.98              172.81    1
## 140                 75.80  38    70575.60              146.19    1
## 141                 83.86  31    64122.36              190.25    0
## 142                 37.51  30    52097.32              163.00    1
## 143                 55.60  44    65953.76              124.38    1
## 144                 83.67  44    60192.72              234.26    1
## 145                 69.08  41    77460.07              210.60    0
## 146                 37.47  44    45716.48              141.89    1
## 147                 56.04  49    65120.86              128.95    1
## 148                 70.92  41    49995.63              108.16    1
## 149                 49.78  46    71718.51              152.24    0
## 150                 68.61  57    61770.34              150.29    0
```

```
## 151  58.18  25  69112.84  176.28  1
## 152  78.54  35  72524.86  172.10  0
## 153  37.00  48  36782.38  158.22  1
## 154  65.40  33  66699.12  247.31  0
## 155  79.52  27  64287.78  183.48  1
## 156  87.98  38  56637.59  222.11  1
## 157  44.64  36  55787.58  127.01  0
## 158  41.73  28  61142.33  202.18  1
## 159  80.46  27  61625.87  207.96  1
## 160  75.55  36  73234.87  159.24  0
## 161  76.32  35  74166.24  195.31  1
## 162  82.68  33  62669.59  222.77  1
## 163  72.01  31  57756.89  251.00  0
## 164  75.83  24  58019.64  162.44  0
## 165  41.28  50  50960.08  140.39  0
## 166  34.66  32  48246.60  194.83  0
## 167  66.18  55  28271.84  143.42  0
## 168  86.06  31  53767.12  219.72  1
## 169  59.59  42  43662.10  104.78  1
## 170  86.69  34  62238.58  198.56  0
## 171  43.77  52  49030.03  138.55  1
## 172  71.84  47  76003.47  199.79  1
## 173  80.23  31  68094.85  196.23  0
## 174  74.41  26  64395.85  163.05  0
## 175  63.36  48  70053.27  137.43  0
## 176  71.74  35  72423.97  227.56  0
## 177  60.72  44  42995.80  105.69  0
## 178  72.04  22  60309.58  199.43  0
## 179  44.57  31  38349.78  133.17  1
## 180  85.86  34  63115.34  208.23  0
## 181  39.85  38  31343.39  145.96  0
## 182  84.53  27  40763.13  168.34  0
## 183  62.95  60  36752.24  157.04  0
## 184  67.58  41  65044.59  255.61  1
## 185  85.56  29  53673.08  210.46  0
## 186  46.88  54  43444.86  136.64  0
## 187  46.31  57  44248.52  153.98  1
## 188  77.95  31  62572.88  233.65  1
## 189  84.73  30  39840.55  153.76  0
## 190  39.86  36  32593.59  145.85  0
## 191  50.08  30  41629.86  123.91  0
## 192  60.23  35  43313.73  106.86  0
## 193  60.70  49  42993.48  110.57  1
## 194  43.67  53  46004.31  143.79  1
## 195  77.20  33  49325.48  254.05  1
## 196  71.86  32  51633.34  116.53  0
## 197  44.78  45  63363.04  137.24  1
## 198  78.57  36  64045.93  239.32  1
## 199  73.41  31  73049.30  201.26  1
## 200  77.05  27  66624.60  191.14  0
## 201  66.40  40  77567.85  214.42  0
## 202  69.35  29  53431.35  252.77  1
## 203  35.65  40  31265.75  172.58  1
## 204  70.04  31  74780.74  183.85  1
```

```
## 205  69.78  29  70410.11  218.79  0
## 206  58.22  29  37345.24  120.90  0
## 207  76.90  28  66107.84  212.67  0
## 208  84.08  30  62336.39  187.36  1
## 209  59.51  58  39132.64  140.83  0
## 210  40.15  38  38745.29  134.88  1
## 211  76.81  28  65172.22  217.85  1
## 212  41.89  38  68519.96  163.38  0
## 213  76.87  27  54774.77  235.35  1
## 214  67.28  43  76246.96  155.80  1
## 215  81.98  40  65461.92  229.22  0
## 216  66.01  23  34127.21  151.95  0
## 217  61.57  53  35253.98  125.94  1
## 218  53.30  34  44893.71  111.94  0
## 219  34.87  40  59621.02  200.23  0
## 220  43.60  38  20856.54  170.49  0
## 221  77.88  37  55353.41  254.57  0
## 222  75.83  27  67516.07  200.59  0
## 223  49.95  39  68737.75  136.59  0
## 224  60.94  41  76893.84  154.97  0
## 225  89.15  42  59886.58  171.07  0
## 226  78.70  30  53441.69  133.99  0
## 227  57.35  29  41356.31  119.84  0
## 228  34.86  38  49942.66  154.75  0
## 229  70.68  31  74430.08  199.08  0
## 230  76.06  23  58633.63  201.04  0
## 231  66.67  33  72707.87  228.03  1
## 232  46.77  32  31092.93  136.40  1
## 233  62.42  38  74445.18  143.94  0
## 234  78.32  28  49309.14  239.52  0
## 235  37.32  50  56735.14  199.25  1
## 236  40.42  45  40183.75  133.90  1
## 237  76.77  36  58348.41  123.51  0
## 238  65.65  30  72209.99  158.05  0
## 239  74.32  33  62060.11  128.17  0
## 240  73.27  32  67113.46  234.75  1
## 241  80.03  44  24030.06  150.84  0
## 242  53.68  47  56180.93  115.26  1
## 243  85.84  32  62204.93  192.85  1
## 244  85.03  30  60372.64  204.52  0
## 245  70.44  24  65280.16  178.75  1
## 246  81.22  53  34309.24  223.09  1
## 247  39.96  45  59610.81  146.13  1
## 248  57.05  41  50278.89  269.96  1
## 249  42.44  56  43450.11  168.27  0
## 250  62.20  25  25408.21  161.16  0
## 251  76.70  36  71136.49  222.25  0
## 252  61.22  45  63883.81  119.03  1
## 253  84.54  33  64902.47  204.02  1
## 254  46.08  30  66784.81  164.63  1
## 255  56.70  48  62784.85  123.13  0
## 256  81.03  28  63727.50  201.15  0
## 257  80.91  32  61608.23  231.42  0
## 258  40.06  38  56782.18  138.68  1
```

```
## 259  83.47  39  64447.77  226.11  0
## 260  73.84  31  42042.95  121.05  0
## 261  74.65  28  67669.06  212.56  0
## 262  60.25  35  54875.95  109.77  0
## 263  59.21  35  73347.67  144.62  1
## 264  43.02  44  50199.77  125.22  0
## 265  84.04  38  50723.67  244.55  0
## 266  70.66  43  63450.96  120.95  1
## 267  70.58  26  56694.12  136.94  0
## 268  72.44  34  70547.16  230.14  0
## 269  40.17  26  47391.95  171.31  1
## 270  79.15  26  62312.23  203.23  0
## 271  44.49  53  63100.13  168.00  1
## 272  73.04  37  73687.50  221.79  1
## 273  76.28  33  52686.47  254.34  0
## 274  68.88  37  78119.50  179.58  0
## 275  73.10  28  57014.84  242.37  0
## 276  47.66  29  27086.40  156.54  0
## 277  87.30  35  58337.18  216.87  0
## 278  89.34  32  50216.01  177.78  1
## 279  81.37  26  53049.44  156.48  1
## 280  81.67  28  62927.96  196.76  1
## 281  46.37  52  32847.53  144.27  0
## 282  54.88  24  32006.82  148.61  0
## 283  40.67  35  48913.07  133.18  0
## 284  71.76  35  69285.69  237.39  0
## 285  47.51  51  53700.57  130.41  1
## 286  75.15  22  52011.00  212.87  1
## 287  56.01  26  46339.25  127.26  0
## 288  82.87  37  67938.77  213.36  0
## 289  45.05  42  66348.95  141.36  0
## 290  60.53  24  66873.90  167.22  0
## 291  50.52  31  72270.88  171.62  0
## 292  84.71  32  61610.05  210.23  0
## 293  55.20  39  76560.59  159.46  1
## 294  81.61  33  62667.51  228.76  0
## 295  71.55  36  75687.46  163.99  1
## 296  82.40  36  66744.65  218.97  1
## 297  73.95  35  67714.82  238.58  0
## 298  72.07  31  69710.51  226.45  0
## 299  80.39  31  66269.49  214.74  0
## 300  65.80  25  60843.32  231.49  1
## 301  69.97  28  55041.60  250.00  0
## 302  52.62  50  73863.25  176.52  0
## 303  39.25  39  62378.05  152.36  0
## 304  77.56  38  63336.85  130.83  1
## 305  33.52  43  42191.61  165.56  0
## 306  79.81  24  56194.56  178.85  1
## 307  84.79  33  61771.90  214.53  0
## 308  82.70  35  61383.79  231.07  0
## 309  84.88  32  63924.82  186.48  0
## 310  54.92  54  23975.35  161.16  0
## 311  76.56  34  70179.11  221.53  1
## 312  69.74  49  66524.80  243.37  0
```

```
## 313  75.55  22  41851.38  169.40  0
## 314  72.19  33  61275.18  250.35  1
## 315  84.29  41  60638.38  232.54  0
## 316  73.89  39  47160.53  110.68  0
## 317  75.84  21  48537.18  186.98  0
## 318  73.38  25  53058.91  236.19  1
## 319  80.72  31  68614.98  186.37  0
## 320  62.06  44  44174.25  105.00  0
## 321  51.50  34  67050.16  135.31  0
## 322  90.97  37  54520.14  180.77  0
## 323  86.78  30  54952.42  170.13  1
## 324  66.18  35  69476.42  243.61  0
## 325  84.33  41  54989.93  240.95  0
## 326  36.87  36  29398.61  195.91  0
## 327  34.78  48  42861.42  208.21  1
## 328  76.84  32  65883.39  231.59  0
## 329  67.05  25  65421.39  220.92  0
## 330  41.47  31  60953.93  219.79  0
## 331  80.71  26  58476.57  200.58  0
## 332  80.09  31  66636.84  214.08  0
## 333  56.30  49  67430.96  135.24  1
## 334  79.36  34  57260.41  245.78  1
## 335  86.38  40  66359.32  188.27  1
## 336  38.94  41  57587.00  142.67  1
## 337  87.26  35  63060.55  184.03  0
## 338  75.32  28  59998.50  233.60  1
## 339  74.38  40  74024.61  220.05  1
## 340  65.90  22  60550.66  211.39  0
## 341  36.31  47  57983.30  168.92  0
## 342  72.23  48  52736.33  115.35  0
## 343  88.12  38  46653.75  230.91  0
## 344  83.97  28  56986.73  205.50  1
## 345  61.09  26  55336.18  131.68  1
## 346  65.77  21  42162.90  218.61  1
## 347  81.58  25  39699.13  199.39  0
## 348  37.87  52  56394.82  188.56  1
## 349  76.20  37  75044.35  178.51  0
## 350  60.91  19  53309.61  184.94  0
## 351  74.49  28  58996.12  237.34  0
## 352  73.71  23  56605.12  211.38  1
## 353  78.19  30  62475.99  228.81  0
## 354  79.54  44  70492.60  217.68  1
## 355  74.87  52  43698.53  126.97  0
## 356  87.09  36  57737.51  221.98  1
## 357  37.45  47  31281.01  167.86  0
## 358  49.84  39  45800.48  111.59  0
## 359  51.38  59  42362.49  158.56  0
## 360  83.40  34  66691.23  207.87  0
## 361  38.91  33  56369.74  150.80  1
## 362  62.14  41  59397.89  110.93  1
## 363  79.72  28  66025.11  193.80  1
## 364  73.30  36  68211.35  135.72  1
## 365  69.11  42  73608.99  231.48  1
## 366  71.90  54  61228.96  140.15  1
```

```
## 367  72.45  29  72325.91  195.36  1
## 368  77.07  40  44559.43  261.02  0
## 369  74.62  36  73207.15  217.79  0
## 370  82.07  25  46722.07  205.38  1
## 371  58.60  50  45400.50  113.70  0
## 372  36.08  45  41417.27  151.47  1
## 373  79.44  26  60845.55  206.79  0
## 374  41.73  47  60812.77  144.71  0
## 375  73.19  25  64267.88  203.74  1
## 376  77.60  24  58151.87  197.33  1
## 377  89.00  37  52079.18  222.26  1
## 378  69.20  42  26023.99  123.80  0
## 379  67.56  31  62318.38  125.45  0
## 380  81.11  39  56216.57  248.19  1
## 381  80.22  30  61806.31  224.58  0
## 382  43.63  41  51662.24  123.25  1
## 383  77.66  29  67080.94  168.15  0
## 384  74.63  26  51975.41  235.99  1
## 385  49.67  27  28019.09  153.69  0
## 386  80.59  37  67744.56  224.23  0
## 387  83.49  33  66574.00  190.75  1
## 388  44.46  42  30487.48  132.66  1
## 389  68.10  40  74903.41  227.73  1
## 390  63.88  38  19991.72  136.85  0
## 391  78.83  36  66050.63  234.64  1
## 392  79.97  44  70449.04  216.00  0
## 393  80.51  28  64008.55  200.28  1
## 394  62.26  26  70203.74  202.77  0
## 395  66.99  47  27262.51  124.44  1
## 396  71.05  20  49544.41  204.22  1
## 397  42.05  51  28357.27  174.55  1
## 398  50.52  28  66929.03  219.69  0
## 399  76.24  40  75524.78  198.32  1
## 400  77.29  27  66265.34  201.24  1
## 401  35.98  47  55993.68  165.52  1
## 402  84.95  34  56379.30  230.36  0
## 403  39.34  43  31215.88  148.93  0
## 404  87.23  29  51015.11  202.12  0
## 405  57.24  52  46473.14  117.35  1
## 406  81.58  41  55479.62  248.16  0
## 407  56.34  50  68713.70  139.02  1
## 408  48.73  27  34191.23  142.04  0
## 409  51.68  49  51067.54  258.62  0
## 410  35.34  45  46693.76  152.86  0
## 411  48.09  33  19345.36  180.42  0
## 412  78.68  29  66225.72  208.05  0
## 413  68.82  20  38609.20  205.64  1
## 414  56.99  40  37713.23  108.15  0
## 415  86.63  39  63764.28  209.64  1
## 416  41.18  43  41866.55  129.25  1
## 417  71.03  32  57846.68  120.85  0
## 418  72.92  29  69428.73  217.10  1
## 419  77.14  24  60283.98  184.88  1
## 420  60.70  43  79332.33  192.60  1
```

```
## 421  34.30  41  53167.68  160.74  1
## 422  83.71  45  64564.07  220.48  1
## 423  53.38  35  60803.37  120.06  1
## 424  58.03  31  28387.42  129.33  0
## 425  43.59  36  58849.77  132.31  1
## 426  60.07  42  65963.37  120.75  1
## 427  54.43  37  75180.20  154.74  1
## 428  81.99  33  61270.14  230.90  0
## 429  60.53  29  56759.48  123.28  0
## 430  84.69  31  46160.63  231.85  1
## 431  88.72  32  43870.51  211.87  1
## 432  88.89  35  50439.49  218.80  1
## 433  69.58  43  28028.74  255.07  0
## 434  85.23  36  64238.71  212.92  1
## 435  83.55  39  65816.38  221.18  1
## 436  56.66  42  72684.44  139.42  0
## 437  56.39  27  38817.40  248.12  1
## 438  76.24  27  63976.44  214.42  0
## 439  57.64  36  37212.54  110.25  1
## 440  78.18  23  52691.79  167.67  0
## 441  46.04  32  65499.93  147.92  0
## 442  79.40  35  63966.72  236.87  0
## 443  36.44  39  52400.88  147.64  1
## 444  53.14  38  49111.47  109.00  1
## 445  32.84  40  41232.89  171.72  0
## 446  73.72  32  52140.04  256.40  1
## 447  38.10  34  60641.09  214.38  1
## 448  73.93  44  74180.05  218.22  0
## 449  51.87  50  51869.87  119.65  0
## 450  77.69  22  48852.58  169.88  1
## 451  43.41  28  59144.02  160.73  0
## 452  55.92  24  33951.63  145.08  0
## 453  80.67  34  58909.36  239.76  0
## 454  83.42  25  49850.52  183.42  1
## 455  82.12  52  28679.93  201.15  1
## 456  66.17  33  69869.66  238.45  0
## 457  43.01  35  48347.64  127.37  0
## 458  80.05  25  45959.86  219.94  1
## 459  64.88  42  70005.51  129.80  1
## 460  79.82  26  51512.66  223.28  1
## 461  48.03  40  25598.75  134.60  1
## 462  32.99  45  49282.87  177.46  0
## 463  74.88  27  67240.25  175.17  1
## 464  36.49  52  42136.33  196.61  1
## 465  88.04  45  62589.84  191.17  1
## 466  45.70  33  67384.31  151.12  1
## 467  82.38  35  25603.93  159.60  0
## 468  52.68  23  39616.00  149.20  1
## 469  65.59  47  28265.81  121.81  0
## 470  65.65  25  63879.72  224.92  1
## 471  43.84  36  70592.81  167.42  0
## 472  67.69  37  76408.19  216.57  0
## 473  78.37  24  55015.08  207.27  0
## 474  81.46  29  51636.12  231.54  0
```

```
## 475  47.48  31  29359.20  141.34  0
## 476  75.15  33  71296.67  219.49  1
## 477  78.76  24  46422.76  219.98  1
## 478  44.96  50  52802.00  132.71  1
## 479  39.56  41  59243.46  143.13  1
## 480  39.76  28  35350.55  196.83  1
## 481  57.11  22  59677.64  207.17  1
## 482  83.26  40  70225.60  187.76  1
## 483  69.42  25  65791.17  213.38  0
## 484  50.60  30  34191.13  129.88  1
## 485  46.20  37  51315.38  119.30  0
## 486  66.88  35  62790.96  119.47  1
## 487  83.97  40  66291.67  158.42  1
## 488  76.56  30  68030.18  213.75  0
## 489  35.49  48  43974.49  159.77  0
## 490  80.29  31  49457.48  244.87  1
## 491  50.19  40  33987.27  117.30  0
## 492  59.12  33  28210.03  124.54  0
## 493  59.88  30  75535.14  193.63  1
## 494  59.70  28  49158.50  120.25  0
## 495  67.80  30  39809.69  117.75  1
## 496  81.59  35  65826.53  223.16  0
## 497  81.10  29  61172.07  216.49  1
## 498  41.70  39  42898.21  126.95  0
## 499  73.94  27  68333.01  173.49  0
## 500  58.35  37  70232.95  132.63  0
## 501  51.56  46  63102.19  124.85  0
## 502  79.81  37  51847.26  253.17  0
## 503  66.17  26  63580.22  228.70  0
## 504  58.21  37  47575.44  105.94  0
## 505  66.12  49  39031.89  113.80  0
## 506  80.47  42  70505.06  215.18  1
## 507  77.05  31  62161.26  236.64  0
## 508  49.99  41  61068.26  121.07  0
## 509  80.30  58  49090.51  173.43  0
## 510  79.36  33  62330.75  234.72  1
## 511  57.86  30  18819.34  166.86  0
## 512  70.29  26  62053.37  231.37  1
## 513  84.53  33  61922.06  215.18  1
## 514  59.13  44  49525.37  106.04  1
## 515  81.51  41  53412.32  250.03  0
## 516  42.94  37  56681.65  130.40  1
## 517  84.81  32  43299.63  233.93  1
## 518  82.79  34  47997.75  132.08  0
## 519  59.22  55  39131.53  126.39  1
## 520  35.00  40  46033.73  151.25  1
## 521  46.61  42  65856.74  136.18  0
## 522  63.26  29  54787.37  120.46  1
## 523  79.16  32  69562.46  202.90  1
## 524  67.94  43  68447.17  128.16  0
## 525  79.91  32  62772.42  230.18  1
## 526  66.14  41  78092.95  165.27  0
## 527  43.65  39  63649.04  138.87  0
## 528  59.61  21  60637.62  198.45  1
```

```
## 529  46.61  52  27241.11  156.99  0
## 530  89.37  34  42760.22  162.03  1
## 531  65.10  49  59457.52  118.10  1
## 532  53.44  42  42907.89  108.17  1
## 533  79.53  51  46132.18  244.91  0
## 534  91.43  39  46964.11  209.91  1
## 535  73.57  30  70377.23  212.38  0
## 536  78.76  32  70012.83  208.02  1
## 537  76.49  23  56457.01  181.11  0
## 538  61.72  26  67279.06  218.49  0
## 539  84.53  35  54773.99  236.29  0
## 540  72.03  34  70783.94  230.95  1
## 541  77.47  36  70510.59  222.91  1
## 542  75.65  39  64021.55  247.90  1
## 543  78.15  33  72042.85  194.37  0
## 544  63.80  38  36037.33  108.70  1
## 545  76.59  29  67526.92  211.64  0
## 546  42.60  55  55121.65  168.29  0
## 547  78.77  28  63497.62  211.83  0
## 548  83.40  39  60879.48  235.01  0
## 549  79.53  33  61467.33  236.72  0
## 550  73.89  35  70495.64  229.99  1
## 551  75.80  36  71222.40  224.90  0
## 552  81.95  31  64698.58  208.76  1
## 553  56.39  58  32252.38  154.23  0
## 554  44.73  35  55316.97  127.56  1
## 555  38.35  33  47447.89  145.48  1
## 556  72.53  37  73474.82  223.93  0
## 557  56.20  49  53549.94  114.85  1
## 558  79.67  28  58576.12  226.79  0
## 559  75.42  26  63373.70  164.25  1
## 560  78.64  31  60283.47  235.28  1
## 561  67.69  44  37345.34  109.22  0
## 562  38.35  41  34886.01  144.69  1
## 563  59.52  44  67511.86  251.08  1
## 564  62.26  37  77988.71  166.19  0
## 565  64.75  36  63001.03  117.66  0
## 566  79.97  26  61747.98  185.45  1
## 567  47.90  42  48467.68  114.53  0
## 568  80.38  30  55130.96  238.06  0
## 569  64.51  42  79484.80  190.71  1
## 570  71.28  37  67307.43  246.72  1
## 571  50.32  40  27964.60  125.65  0
## 572  72.76  33  66431.87  240.63  1
## 573  72.80  35  63551.67  249.54  0
## 574  74.59  23  40135.06  158.35  1
## 575  46.66  45  49101.67  118.16  0
## 576  48.86  54  53188.69  134.46  0
## 577  37.05  39  49742.83  142.81  1
## 578  81.21  36  63394.41  233.04  0
## 579  66.89  23  64433.99  208.24  1
## 580  68.11  38  73884.48  231.21  0
## 581  69.15  46  36424.94  112.72  0
## 582  65.72  36  28275.48  120.12  0
```

```
## 583  40.04  27  48098.86  161.58  0
## 584  68.60  33  68448.94  135.08  0
## 585  56.16  25  66429.84  164.25  1
## 586  78.60  46  41768.13  254.59  1
## 587  78.29  38  57844.96  252.07  0
## 588  43.83  45  35684.82  129.01  0
## 589  77.31  32  62792.43  238.10  0
## 590  39.86  28  51171.23  161.24  0
## 591  66.77  25  58847.07  141.13  0
## 592  57.20  42  57739.03  110.66  0
## 593  73.15  25  64631.22  211.12  1
## 594  82.07  24  50337.93  193.97  0
## 595  49.84  38  67781.31  135.24  1
## 596  43.97  36  68863.95  156.97  1
## 597  77.25  27  55901.12  231.38  1
## 598  74.84  37  64775.10  246.44  1
## 599  83.53  36  67686.16  204.56  0
## 600  38.63  48  57777.11  222.11  0
## 601  84.00  48  46868.53  136.21  1
## 602  52.13  50  40926.93  118.27  1
## 603  71.83  40  22205.74  135.48  1
## 604  78.36  24  58920.44  196.77  1
## 605  50.18  35  63006.14  127.82  1
## 606  64.67  51  24316.61  138.35  1
## 607  69.50  26  68348.99  203.84  0
## 608  65.22  30  66263.37  240.09  1
## 609  62.06  40  63493.60  116.27  1
## 610  84.29  30  56984.09  160.33  1
## 611  32.91  37  51691.55  181.02  0
## 612  39.50  31  49911.25  148.19  1
## 613  75.19  31  33502.57  245.76  1
## 614  76.21  31  65834.97  228.94  1
## 615  67.76  31  66176.97  242.59  0
## 616  40.01  53  51463.17  161.77  0
## 617  52.70  41  41059.64  109.34  1
## 618  68.41  38  61428.18  259.76  0
## 619  35.55  39  51593.46  151.18  0
## 620  74.54  24  57518.73  219.75  0
## 621  81.75  24  52656.13  190.08  1
## 622  87.85  31  52178.98  210.27  1
## 623  60.23  60  46239.14  151.54  1
## 624  87.97  35  48918.55  149.25  1
## 625  78.17  27  65227.79  192.27  1
## 626  67.91  23  55002.05  146.80  1
## 627  85.77  27  52261.73  191.78  1
## 628  41.16  49  59448.44  150.83  1
## 629  53.54  39  47314.45  108.03  0
## 630  73.94  26  55411.06  236.15  1
## 631  63.43  29  66504.16  236.75  1
## 632  84.59  36  47169.14  241.80  1
## 633  70.13  31  70889.68  224.98  0
## 634  40.19  37  55358.88  136.99  0
## 635  58.95  55  56242.70  131.29  1
## 636  35.76  51  45522.44  195.07  0
```

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## 637                59.36  49    46931.03              110.84    0
## 638                91.10  40    55499.69              198.13    1
## 639                61.04  41    75805.12              149.21    0
## 640                74.06  23    40345.49              225.99    0
## 641                64.63  45    15598.29              158.80    1
## 642                81.29  28    33239.20              219.72    0
## 643                76.07  36    68033.54              235.56    0
## 644                75.92  22    38427.66              182.65    0
## 645                78.35  46    53185.34              253.48    0
## 646                46.14  28    39723.97              137.97    1
## 647                44.33  41    43386.07              120.63    0
## 648                46.43  28    53922.43              137.20    1
## 649                66.04  27    71881.84              199.76    0
## 650                84.31  29    47139.21              225.87    0
## 651                83.66  38    68877.02              175.14    0
## 652                81.25  33    65186.58              222.35    1
## 653                85.26  32    55424.24              224.07    1
## 654                86.53  46    46500.11              233.36    0
## 655                76.44  26    58820.16              224.20    1
## 656                52.84  43    28495.21              122.31    0
## 657                85.24  31    61840.26              182.84    1
## 658                74.71  46    37908.29              258.06    1
## 659                82.95  39    69805.70              201.29    0
## 660                76.42  26    60315.19              223.16    1
## 661                42.04  49    67323.00              182.11    0
## 662                46.28  26    50055.33              228.78    1
## 663                48.26  50    43573.66              122.45    1
## 664                71.03  55    28186.65              150.77    0
## 665                81.37  33    66412.04              215.04    0
## 666                58.05  32    15879.10              195.54    1
## 667                75.00  29    63965.16              230.36    1
## 668                79.61  31    58342.63              235.97    0
## 669                52.56  31    33147.19              250.36    1
## 670                62.18  33    65899.68              126.44    0
## 671                77.89  26    64188.50              201.54    0
## 672                66.08  61    58966.22              184.23    1
## 673                89.21  33    44078.24              210.53    0
## 674                49.96  55    60968.62              151.94    1
## 675                77.44  28    65620.25              210.39    0
## 676                82.58  38    65496.78              225.23    1
## 677                39.36  29    52462.04              161.79    1
## 678                47.23  38    70582.55              149.80    1
## 679                87.85  34    51816.27              153.01    0
## 680                65.57  46    23410.75              130.86    0
## 681                78.01  26    62729.40              200.71    1
## 682                44.15  28    48867.67              141.96    1
## 683                43.57  36    50971.73              125.20    1
## 684                76.83  28    67990.84              192.81    0
## 685                42.06  34    43241.19              131.55    0
## 686                76.27  27    60082.66              226.69    1
## 687                74.27  37    65180.97              247.05    1
## 688                73.27  28    67301.39              216.24    1
## 689                74.58  36    70701.31              230.52    0
## 690                77.50  28    60997.84              225.34    1
```

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## 691                87.16  33    60805.93              197.15    0
## 692                87.16  37    50711.68              231.95    1
## 693                66.26  47    14548.06              179.04    1
## 694                65.15  29    41335.84              117.30    0
## 695                68.25  33    76480.16              198.86    1
## 696                73.49  38    67132.46              244.23    0
## 697                39.19  54    52581.16              173.05    0
## 698                80.15  25    55195.61              214.49    0
## 699                86.76  28    48679.54              189.91    0
## 700                73.88  29    63109.74              233.61    0
## 701                58.60  19    44490.09              197.93    1
## 702                69.77  54    57667.99              132.27    0
## 703                87.27  30    51824.01              204.27    1
## 704                77.65  28    66198.66              208.01    0
## 705                76.02  40    73174.19              219.55    0
## 706                78.84  26    56593.80              217.66    1
## 707                71.33  23    31072.44              169.40    0
## 708                81.90  41    66773.83              225.47    0
## 709                46.89  48    72553.94              176.78    1
## 710                77.80  57    43708.88              152.94    0
## 711                45.44  43    48453.55              119.27    0
## 712                69.96  31    73413.87              214.06    1
## 713                87.35  35    58114.30              158.29    1
## 714                49.42  53    45465.25              128.00    1
## 715                71.27  21    50147.72              216.03    1
## 716                49.19  38    61004.51              123.08    0
## 717                39.96  35    53898.89              138.52    1
## 718                85.01  29    59797.64              192.50    0
## 719                68.95  51    74623.27              185.85    1
## 720                67.59  45    58677.69              113.69    0
## 721                75.71  34    62109.80              246.06    0
## 722                43.07  36    60583.02              137.63    1
## 723                39.47  43    65576.05              163.48    1
## 724                48.22  40    73882.91              214.33    0
## 725                76.76  25    50468.36              230.77    1
## 726                78.74  27    51409.45              234.75    0
## 727                67.47  24    60514.05              225.05    1
## 728                81.17  30    57195.96              231.91    1
## 729                89.66  34    52802.58              171.23    1
## 730                79.60  28    56570.06              227.37    1
## 731                65.53  19    51049.47              190.17    1
## 732                61.87  35    66629.61              250.20    1
## 733                83.16  41    70185.06              194.95    0
## 734                44.11  41    43111.41              121.24    1
## 735                56.57  26    56435.60              131.98    0
## 736                83.91  29    53223.58              222.87    0
## 737                79.80  28    57179.91              229.88    1
## 738                71.23  52    41521.28              122.59    0
## 739                47.23  43    73538.09              210.87    1
## 740                82.37  30    63664.32              207.44    0
## 741                43.63  38    61757.12              135.25    1
## 742                70.90  28    71727.51              190.95    0
## 743                71.90  29    72203.96              193.29    1
## 744                62.12  37    50671.60              105.86    1
```

```
## 745  67.35  29  47510.42  118.69  0
## 746  57.99  50  62466.10  124.58  0
## 747  66.80  29  59683.16  248.51  0
## 748  49.13  32  41097.17  120.49  0
## 749  45.11  58  39799.73  195.69  0
## 750  54.35  42  76984.21  164.02  0
## 751  61.82  59  57877.15  151.93  1
## 752  77.75  31  59047.91  240.64  1
## 753  70.61  28  72154.68  190.12  0
## 754  82.72  31  65704.79  179.82  0
## 755  76.87  36  72948.76  212.59  0
## 756  65.07  34  73941.91  227.53  1
## 757  56.93  37  57887.64  111.80  0
## 758  48.86  35  62463.70  128.37  1
## 759  36.56  29  42838.29  195.89  0
## 760  85.73  32  43778.88  147.75  1
## 761  75.81  40  71157.05  229.19  0
## 762  72.94  31  74159.69  190.84  0
## 763  53.63  54  50333.72  126.29  1
## 764  52.35  25  33293.78  147.61  1
## 765  52.84  51  38641.20  121.57  1
## 766  51.58  33  49822.78  115.91  0
## 767  42.32  29  63891.29  187.09  1
## 768  55.04  42  43881.73  106.96  1
## 769  68.58  41  13996.50  171.54  1
## 770  85.54  27  48761.14  175.43  1
## 771  71.14  30  69758.31  224.82  0
## 772  64.38  19  52530.10  180.47  1
## 773  88.85  40  58363.12  213.96  0
## 774  66.79  60  60575.99  198.30  1
## 775  32.60  45  48206.04  185.47  0
## 776  43.88  54  31523.09  166.85  1
## 777  56.46  26  66187.58  151.63  0
## 778  72.18  30  69438.04  225.02  0
## 779  52.67  44  14775.50  191.26  0
## 780  80.55  35  68016.90  219.91  0
## 781  67.85  41  78520.99  202.70  1
## 782  75.55  36  31998.72  123.71  1
## 783  80.46  29  56909.30  230.78  0
## 784  82.69  29  61161.29  167.41  1
## 785  35.21  39  52340.10  154.00  1
## 786  36.37  40  47338.94  144.53  1
## 787  74.07  22  50950.24  165.43  1
## 788  59.96  33  77143.61  197.66  0
## 789  85.62  29  57032.36  195.68  0
## 790  40.88  33  48554.45  136.18  1
## 791  36.98  31  39552.49  167.87  1
## 792  35.49  47  36884.23  170.04  0
## 793  56.56  26  68783.45  204.47  1
## 794  36.62  32  51119.93  162.44  1
## 795  49.35  49  44304.13  119.86  0
## 796  75.64  29  69718.19  204.82  1
## 797  79.22  27  63429.18  198.79  1
## 798  77.05  34  65756.36  236.08  0
```

```
## 799  66.83  46  77871.75  196.17  1
## 800  76.20  24  47258.59  228.81  1
## 801  56.64  29  55984.89  123.24  1
## 802  53.33  34  44275.13  111.63  1
## 803  50.63  50  25767.16  142.23  0
## 804  41.84  49  37605.11  139.32  0
## 805  53.92  41  25739.09  125.46  1
## 806  83.89  28  60188.38  180.88  1
## 807  55.32  43  67682.32  127.65  0
## 808  53.22  44  44307.18  108.85  0
## 809  43.16  35  25371.52  156.11  1
## 810  67.51  43  23942.61  127.20  0
## 811  43.16  29  50666.50  143.04  1
## 812  79.89  30  50356.06  241.38  1
## 813  84.25  32  63936.50  170.90  1
## 814  74.18  28  69874.18  203.87  0
## 815  85.78  34  50038.65  232.78  0
## 816  80.96  39  67866.95  225.00  1
## 817  36.91  48  54645.20  159.69  0
## 818  54.47  23  46780.09  141.52  0
## 819  81.98  34  67432.49  212.88  0
## 820  79.60  39  73392.28  194.23  0
## 821  57.51  38  47682.28  105.71  0
## 822  82.30  31  56735.83  232.21  0
## 823  73.21  30  51013.37  252.60  1
## 824  79.09  32  69481.85  209.72  1
## 825  68.47  28  67033.34  226.64  0
## 826  83.69  36  68717.00  192.57  0
## 827  83.48  31  59340.99  222.72  1
## 828  43.49  45  47968.32  124.67  0
## 829  66.69  35  48758.92  108.27  0
## 830  48.46  49  61230.03  132.38  1
## 831  42.51  30  54755.71  144.77  1
## 832  42.83  34  54324.73  132.38  1
## 833  41.46  42  52177.40  128.98  1
## 834  45.99  33  51163.14  124.61  1
## 835  68.72  27  66861.67  225.97  0
## 836  63.11  34  63107.88  254.94  1
## 837  49.21  46  49206.40  115.60  0
## 838  55.77  49  55942.04  117.33  1
## 839  44.13  40  33601.84  128.48  1
## 840  57.82  46  48867.36  107.56  1
## 841  72.46  40  56683.32  113.53  0
## 842  61.88  45  38260.89  108.18  0
## 843  78.24  23  54106.21  199.29  0
## 844  74.61  38  71055.22  231.28  1
## 845  89.18  37  46403.18  224.01  1
## 846  44.16  42  61690.93  133.42  1
## 847  55.74  37  26130.93  124.34  1
## 848  88.82  36  58638.75  169.10  0
## 849  70.39  32  47357.39  261.52  1
## 850  59.05  52  50086.17  118.45  1
## 851  78.58  33  51772.58  250.11  1
## 852  35.11  35  47638.30  158.03  1
```

```
## 853  60.39  45  38987.42  108.25  1
## 854  81.56  26  51363.16  213.70  1
## 855  75.03  34  35764.49  255.57  0
## 856  50.87  24  62939.50  190.41  0
## 857  82.80  30  58776.67  223.20  1
## 858  78.51  25  59106.12  205.71  1
## 859  37.65  51  50457.01  161.29  1
## 860  83.17  43  54251.78  244.40  1
## 861  91.37  45  51920.49  182.65  1
## 862  68.25  29  70324.80  220.08  0
## 863  81.32  25  52416.18  165.65  0
## 864  76.64  39  66217.31  241.50  1
## 865  74.06  50  60938.73  246.29  1
## 866  39.53  33  40243.82  142.21  1
## 867  86.58  32  60151.77  195.93  1
## 868  90.75  40  45945.88  216.50  0
## 869  67.71  25  63430.33  225.76  1
## 870  82.41  36  65882.81  222.08  0
## 871  45.82  27  64410.80  171.24  1
## 872  76.79  27  55677.12  235.94  0
## 873  70.05  33  75560.65  203.44  0
## 874  72.19  32  61067.58  250.32  1
## 875  77.35  34  72330.57  167.26  0
## 876  40.34  29  32549.95  173.75  0
## 877  67.39  44  51257.26  107.19  0
## 878  68.68  34  77220.42  187.03  1
## 879  81.75  43  52520.75  249.45  0
## 880  66.03  22  59422.47  217.37  0
## 881  47.74  33  22456.04  154.93  1
## 882  79.18  31  58443.99  236.96  0
## 883  86.81  29  50820.74  199.62  1
## 884  41.53  42  67575.12  158.81  0
## 885  70.92  39  66522.79  249.81  1
## 886  46.84  45  34903.67  123.22  0
## 887  44.40  53  43073.78  140.95  1
## 888  52.17  44  57594.70  115.37  1
## 889  81.45  31  66027.31  205.84  1
## 890  54.08  36  53012.94  111.02  1
## 891  76.65  31  61117.50  238.43  0
## 892  54.39  20  52563.22  171.90  1
## 893  37.74  40  65773.49  190.95  0
## 894  69.86  25  50506.44  241.36  0
## 895  85.37  36  66262.59  194.56  1
## 896  80.99  26  35521.88  207.53  1
## 897  78.84  32  62430.55  235.29  1
## 898  77.36  41  49597.08  115.79  0
## 899  55.46  37  42078.89  108.10  0
## 900  35.66  45  46197.59  151.72  0
## 901  50.78  51  49957.00  122.04  0
## 902  40.47  38  24078.93  203.90  0
## 903  45.62  43  53647.81  121.28  0
## 904  84.76  30  61039.13  178.69  0
## 905  80.64  26  46974.15  221.59  0
## 906  75.94  27  53042.51  236.96  1
```

```
## 907                 37.01  50    48826.14              216.01    0
## 908                 87.18  31    58287.86              193.60    0
## 909                 56.91  50    21773.22              146.44    0
## 910                 75.24  24    52252.91              226.49    0
## 911                 42.84  52    27073.27              182.20    1
## 912                 67.56  47    50628.31              109.98    0
## 913                 34.96  42    36913.51              160.49    1
## 914                 87.46  37    61009.10              211.56    1
## 915                 41.86  39    53041.77              128.62    1
## 916                 34.04  34    40182.84              174.88    1
## 917                 54.96  42    59419.78              113.75    1
## 918                 87.14  31    58235.21              199.40    1
## 919                 78.79  32    68324.48              215.29    1
## 920                 65.56  25    69646.35              181.25    1
## 921                 81.05  34    54045.39              245.50    0
## 922                 55.71  37    57806.03              112.52    1
## 923                 45.48  49    53336.76              129.16    1
## 924                 47.00  56    50491.45              149.53    0
## 925                 59.64  51    71455.62              153.12    1
## 926                 35.98  45    43241.88              150.79    0
## 927                 72.55  22    58953.01              202.34    0
## 928                 91.15  38    36834.04              184.98    0
## 929                 80.53  29    66345.10              187.64    0
## 930                 82.49  45    38645.40              130.84    0
## 931                 80.94  36    60803.00              239.94    0
## 932                 61.76  34    33553.90              114.69    0
## 933                 63.30  38    63071.34              116.19    0
## 934                 36.73  34    46737.34              149.79    1
## 935                 78.41  33    55368.67              248.23    1
## 936                 83.98  36    68305.91              194.62    0
## 937                 63.18  45    39211.49              107.92    0
## 938                 50.60  48    65956.71              135.67    0
## 939                 32.60  38    40159.20              190.05    0
## 940                 60.83  19    40478.83              185.46    1
## 941                 44.72  46    40468.53              123.86    1
## 942                 78.76  51    66980.27              162.05    0
## 943                 79.51  39    34942.26              125.11    1
## 944                 39.30  32    48335.20              145.73    0
## 945                 64.79  30    42251.59              116.07    0
## 946                 89.80  36    57330.43              198.24    0
## 947                 72.82  34    75769.82              191.82    1
## 948                 38.65  31    51812.71              154.77    1
## 949                 59.01  30    75265.96              178.75    1
## 950                 78.96  50    69868.48              193.15    0
## 951                 63.99  43    72802.42              138.46    0
## 952                 41.35  27    39193.45              162.46    1
## 953                 62.79  36    18368.57              231.87    1
## 954                 45.53  29    56129.89              141.58    0
## 955                 51.65  31    58996.56              249.99    0
## 956                 54.55  44    41547.62              109.04    0
## 957                 35.66  36    59240.24              172.57    0
## 958                 69.95  28    56725.47              247.01    0
## 959                 79.83  29    55764.43              234.23    1
## 960                 85.35  37    64235.51              161.42    1
```

```
## 961                    56.78  28    39939.39              124.32    0
## 962                    78.67  26    63319.99              195.56    0
## 963                    70.09  21    54725.87              211.17    0
## 964                    60.75  42    69775.75              247.05    1
## 965                    65.07  24    57545.56              233.85    0
## 966                    35.25  50    47051.02              194.44    0
## 967                    37.58  52    51600.47              176.70    1
## 968                    68.01  25    68357.96              188.32    1
## 969                    45.08  38    35349.26              125.27    0
## 970                    63.04  27    69784.85              159.05    0
## 971                    40.18  29    50760.23              151.96    0
## 972                    45.17  48    34418.09              132.07    1
## 973                    50.48  50    20592.99              162.43    0
## 974                    80.87  28    63528.80              203.30    0
## 975                    41.88  40    44217.68              126.11    1
## 976                    39.87  48    47929.83              139.34    1
## 977                    61.84  45    46024.29              105.63    1
## 978                    54.97  31    51900.03              116.38    1
## 979                    71.40  30    72188.90              166.31    0
## 980                    70.29  31    56974.51              254.65    1
## 981                    67.26  57    25682.65              168.41    1
## 982                    76.58  46    41884.64              258.26    0
## 983                    54.37  38    72196.29              140.77    0
## 984                    82.79  32    54429.17              234.81    1
## 985                    66.47  31    58037.66              256.39    1
## 986                    72.88  44    64011.26              125.12    0
## 987                    76.44  28    59967.19              232.68    1
## 988                    63.37  43    43155.19              105.04    1
## 989                    89.71  48    51501.38              204.40    1
## 990                    70.96  31    55187.85              256.40    0
## 991                    35.79  44    33813.08              165.62    1
## 992                    38.96  38    36497.22              140.67    1
## 993                    69.17  40    66193.81              123.62    0
## 994                    64.20  27    66200.96              227.63    1
## 995                    43.70  28    63126.96              173.01    0
## 996                    72.97  30    71384.57              208.58    1
## 997                    51.30  45    67782.17              134.42    1
## 998                    51.63  51    42415.72              120.37    1
## 999                    55.55  19    41920.79              187.95    0
## 1000                   45.01  26    29875.80              178.35    0
##      Clicked.on.Ad
## 1                0
## 2                0
## 3                0
## 4                0
## 5                0
## 6                0
## 7                0
## 8                1
## 9                0
## 10               0
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## 12               0
## 13               1
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## 14              0
## 15              1
## 16              1
## 17              1
## 18              0
## 19              1
## 20              1
## 21              0
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## 28              1
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## 31              0
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## 33              1
## 34              1
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## 68               1
## 69               0
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## 114              1
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## 119              1
## 120              1
## 121              0
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## 122              0
## 123              0
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## 167              1
## 168              0
## 169              1
## 170              0
## 171              1
## 172              0
## 173              0
## 174              0
## 175              1
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## 999              0
## 1000             1
```

```
df_v$Clicked.on.Ad <- as.factor(df_v$Clicked.on.Ad)
df_v$Male <- as.factor(df_v$Male)
```

Splitting our data into training and test sets

```
intrain <- caret::createDataPartition(y = df_v$Clicked.on.Ad, p= 0.7, list = FALSE)
training <- df_v[intrain,]
testing <- df_v[-intrain,]
```

Checking dimensions of the split

```
#prop.table(table(training$Clicked.on.Ad)) * 100
#prop.table(table(testing$Clicked.on.Ad)) * 100
dim(training);
```

```
## [1] 700   6
```

```
dim(testing);
```

```
## [1] 300   6
```

The trainControl method will take three parameters: a) The "method" parameter defines the resampling method, in this demo we'll be using the repeatedcv or the repeated cross-validation method. b) The next parameter is the "number", this basically holds the number of resampling iterations. c) The "repeats" parameter contains the sets to compute for our repeated cross-validation. We are using setting number =10 and repeats =3

```
trctrl <- caret::trainControl(method = "repeatedcv", number = 10, repeats = 3)
```

Building the model

```
trctrl <- caret::trainControl(method = "repeatedcv", number = 10, repeats = 3)
svm_Linear <- caret::train(Clicked.on.Ad ~., data = training, method = "svmLinear",
trControl=trctrl,
preProcess = c("center", "scale"),
tuneLength = 10)
svm_Linear
```

```
## Support Vector Machines with Linear Kernel
##
## 700 samples
##   5 predictor
##   2 classes: '0', '1'
##
## Pre-processing: centered (5), scaled (5)
## Resampling: Cross-Validated (10 fold, repeated 3 times)
## Summary of sample sizes: 630, 630, 630, 630, 630, 630, ...
## Resampling results:
##
##   Accuracy  Kappa
##   0.972381  0.9447619
##
## Tuning parameter 'C' was held constant at a value of 1
```

We are passing 2 arguments. Its first parameter is our trained model and second parameter "newdata" holds our testing data frame. The predict() method returns a list, we are saving it in a test_pred variable.

```
test_pred <- predict(svm_Linear, newdata = testing)
test_pred
```

```
##   [1] 0 0 0 1 0 1 0 1 1 1 1 0 0 1 1 1 0 1 1 0 1 0 1 0 0 1 0 1 0 0 1 1 0 1 0 0 0
##  [38] 1 0 1 0 1 0 1 0 1 1 1 1 0 1 0 0 0 1 1 1 1 0 0 1 0 1 1 1 0 1 1 0 1 0 1 0 1
##  [75] 1 0 1 1 0 0 1 0 0 1 0 0 0 1 0 1 0 0 1 0 0 1 0 1 0 0 1 0 0 1 1 0 1 1 0 1 1
## [112] 0 1 0 1 0 0 0 0 0 0 0 1 0 0 1 1 0 0 1 0 1 0 1 1 1 0 0 0 0 1 0 1 0 0 1 0 0
## [149] 1 1 1 1 1 0 0 0 0 0 0 1 1 1 1 0 1 1 0 1 0 0 0 0 0 1 0 0 0 1 0 0 1 0 0 0 0
## [186] 1 1 0 0 1 0 1 0 1 1 1 1 0 1 1 0 1 1 1 0 0 0 0 1 0 1 0 0 1 1 0 1 1 0 1 1 0
## [223] 1 0 1 1 1 0 0 0 0 1 0 1 1 0 1 0 1 1 0 0 1 0 0 1 1 1 0 0 0 1 0 1 1 1 0 0 1
## [260] 0 1 1 1 0 0 1 1 0 0 0 0 0 0 1 1 0 0 1 1 1 1 1 1 1 1 0 0 1 1 1 1 1 0 0 0 1
## [297] 0 1 0 1
## Levels: 0 1
```

We're going to use the confusion matrix to predict the accuracy of our model

```
confusionMatrix(table(test_pred, testing$Clicked.on.Ad))
```

```
## Confusion Matrix and Statistics
##
##
## test_pred   0   1
##         0 145   7
##         1   5 143
##
##                Accuracy : 0.96
##                  95% CI : (0.9312, 0.9792)
##     No Information Rate : 0.5
##     P-Value [Acc > NIR] : <0.0000000000000002
##
##                   Kappa : 0.92
##
##  Mcnemar's Test P-Value : 0.7728
```

```
##
##             Sensitivity : 0.9667
##             Specificity : 0.9533
##          Pos Pred Value : 0.9539
##          Neg Pred Value : 0.9662
##              Prevalence : 0.5000
##          Detection Rate : 0.4833
##    Detection Prevalence : 0.5067
##       Balanced Accuracy : 0.9600
##
##        'Positive' Class : 0
##
```

Our SVM model has achieved an accuracy of 96% which is much better than the previous model we worked with.From the confusion matrix we see that most of our predictions were correctly classified with only 10 miss classifications.

Conclusions

As noted previously we have deduced a couple of things from our EDA. Most of the blog users: - Are not male (could identify as female or other) - Come from Czetch Republic and France countries, - Come from Lisamouth and Williamsport cities, - Web users range from the age of 19 to 61. - Who spend most time on the set are less likely to click on an ad. - who click on the ads are older - who come from high income areas are less likely to click on the ads - who clicked on ads did so in the hours after midnight and in the months of May and February.

##Recommendations It seems that most users are actually not male. The entrepreneur could target the other gender users to tap into ad clicks.He/She could also target audiences from lower income areas since they are more likely to click on the ads.