# 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 entreprenuers adverstisements.

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

**Experimental Design** . Data Preparation . Data Cleaning . Descriptive Analysis . Uni variate visualizations . Multivariate visualizations . Recording our findings . Recommendations and Conclusions

```
#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')</pre>
```

#### 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 1000 obs. of 10 variables: ## 'data.frame': ## \$ Daily.Time.Spent.on.Site: num 69 80.2 69.5 74.2 68.4 ... : 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" ... : chr "2016-03-27 00:53:11" "2016-04-04 01:39:02" "2016-03-13 20:35:42" ## \$ Timestamp ## \$ Clicked.on.Ad : int 000000100... ## 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

## The following objects are masked from 'package:base':

## Attaching package: 'Hmisc'

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
                                                                              numeric
                                                                   0
## 2
                             Age
                                        0
                                               0.0
                                                      0
                                                            0
                                                                         0
                                                                              integer
## 3
                    Area.Income
                                        0
                                               0.0
                                                      0
                                                                   0
                                                                              numeric
## 4
                                        0
                                               0.0
                                                                   0
           Daily.Internet.Usage
                                                      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
                                                                              integer
## 8
                                               0.0
                         Country
                                        0
                                                      0
                                                            0
                                                                  0
                                                                         0 character
## 9
                                               0.0
                                                                   0
                       Timestamp
                                        0
                                                      0
                                                            0
                                                                         0 character
## 10
                  Clicked.on.Ad
                                              50.0
                                                      0
                                                                   0
                                      500
                                                            0
                                                                              integer
      unique
##
         900
## 1
## 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</pre>
```

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

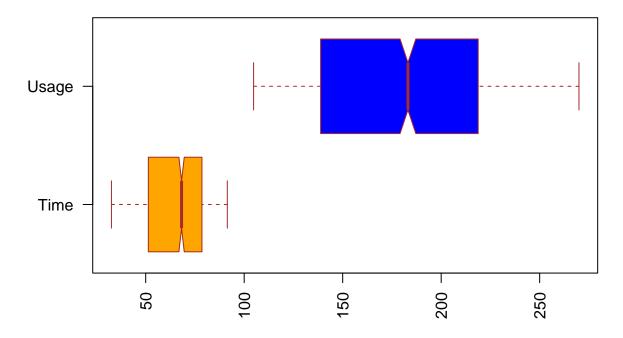
From the above we can deduce that there are two categorical variables as shown by their binary output (unique values: 2). Our dataset has no missing values and 50% amount of zeros in the Male and Clicked on Ad columns which happen to be our categorical variables

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</pre>
```

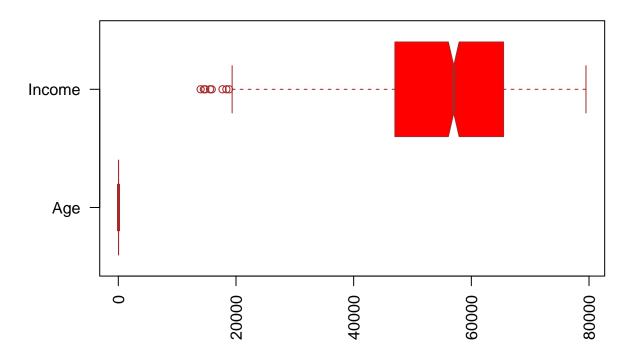
# Multiple boxplots to check for outliers



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
)
```

# Multiple boxplots to check for outliers



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.

### c) Exploratory Data Analyis

Descriptive Analysis

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

Measures of Central Tendancy MEAN

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

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

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) {</pre>
   uniqv <- unique(v)</pre>
   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,
## [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
\operatorname{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

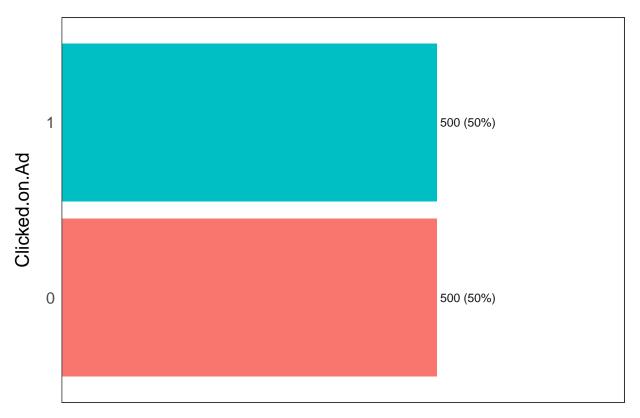
kurtosis(data\$Area.Income) #Displays the kurtosis of our numerical variables: Age, Daily Time Spent on

## [1] 2.894694

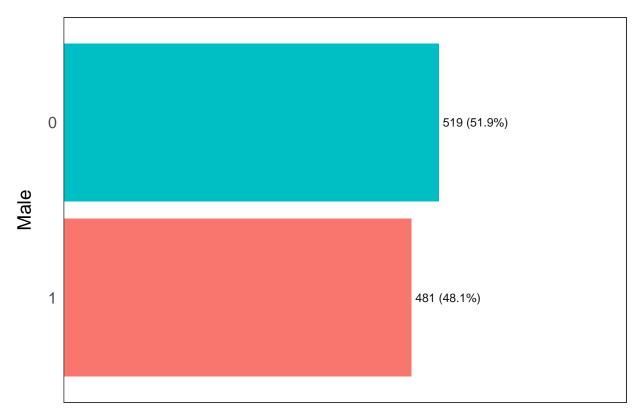
The distribution of the Age variable is positively skewed meaning its tail is on the right side while the rest of the variables are negatively skewed while all the variable have a negative kurtosis implying thin tails.

#### 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
## 2
                 1
                         500
                                     50
                                                    100
## Warning: 'guides(<scale> = FALSE)' is deprecated. Please use 'guides(<scale> =
## "none") instead.
```



Frequency / (Percentage %)



Frequency / (Percentage %)

```
##    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\$Timestamp)

```
## 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
##
                                              0.1
## 1
        2016-01-01 02:52:10
                                     1
## 2
        2016-01-01 03:35:35
                                     1
                                              0.1
                                                               0.2
## 3
        2016-01-01 05:31:22
                                              0.1
                                                               0.3
                                     1
## 4
        2016-01-01 08:27:06
                                     1
                                              0.1
                                                               0.4
## 5
        2016-01-01 15:14:24
                                     1
                                              0.1
                                                               0.5
## 6
        2016-01-01 20:17:49
                                     1
                                              0.1
                                                               0.6
## 7
        2016-01-01 21:58:55
                                     1
                                                               0.7
                                              0.1
## 8
        2016-01-02 04:50:44
                                     1
                                              0.1
                                                               0.8
## 9
        2016-01-02 09:30:11
                                              0.1
                                     1
                                                               0.9
```

##	10	2016-01-02	12:25:36	1	0.1	1.0
##	11	2016-01-02	14:36:03	1	0.1	1.1
##	12	2016-01-03	03:22:15	1	0.1	1.2
##		2016-01-03		1	0.1	1.3
	14	2016-01-03		1	0.1	1.4
##	15	2016-01-03	07:13:53	1	0.1	1.5
##	16	2016-01-03	16:01:40	1	0.1	1.6
##	17	2016-01-03	16:30:51	1	0.1	1.7
##	18	2016-01-03	17:10:05	1	0.1	1.8
	19	2016-01-03		1	0.1	1.9
	20	2016-01-04		1		2.0
					0.1	
	21	2016-01-04		1	0.1	2.1
##	22	2016-01-04	06:37:15	1	0.1	2.2
##	23	2016-01-04	07:28:43	1	0.1	2.3
##	24	2016-01-04	21:48:38	1	0.1	2.4
##	25	2016-01-04	22:27:25	1	0.1	2.5
	26	2016-01-05		1	0.1	2.6
##		2016-01-05		1		2.7
					0.1	
	28	2016-01-05		1	0.1	2.8
	29	2016-01-05		1	0.1	2.9
##	30	2016-01-05	09:42:22	1	0.1	3.0
##	31	2016-01-05	11:53:17	1	0.1	3.1
##	32	2016-01-05	12:59:07	1	0.1	3.2
	33	2016-01-05		1	0.1	3.3
	34	2016-01-05		1	0.1	3.4
##		2016-01-05		1	0.1	3.5
	36	2016-01-05		1	0.1	3.6
##	37	2016-01-06	13:20:01	1	0.1	3.7
##	38	2016-01-06	21:43:22	1	0.1	3.8
##	39	2016-01-07	13:25:21	1	0.1	3.9
##	40	2016-01-07	13:58:51	1	0.1	4.0
##		2016-01-07		1	0.1	4.1
##				1		
		2016-01-07			0.1	4.2
##		2016-01-07		1	0.1	4.3
##		2016-01-08	00:17:27	1	0.1	4.4
##	45	2016-01-08	02:34:06	1	0.1	4.5
##	46	2016-01-08	08:08:47	1	0.1	4.6
##	47	2016-01-08	09:32:26	1	0.1	4.7
	48	2016-01-08		1	0.1	4.8
	49	2016-01-08		1	0.1	4.9
##		2016-01-08		1		
					0.1	5.0
##		2016-01-09		1	0.1	5.1
	52	2016-01-09		1	0.1	5.2
##	53	2016-01-09	05:44:56	1	0.1	5.3
##	54	2016-01-09	07:28:16	1	0.1	5.4
##	55	2016-01-09	15:49:28	1	0.1	5.5
##	56	2016-01-09		1	0.1	5.6
	57	2016-01-10		1	0.1	5.7
	58	2016-01-10		1	0.1	5.8
##		2016-01-10		1	0.1	5.9
##		2016-01-11		1	0.1	6.0
##	61	2016-01-11	06:02:27	1	0.1	6.1
##	62	2016-01-11	07:36:22	1	0.1	6.2
##	63	2016-01-11		1	0.1	6.3
		· · ·	- <del>-</del>	•	- · · <del>-</del>	

##	64	2016-01-11	12:46:31	1	0.1	6.4
##	65	2016-01-12	03:28:31	1	0.1	6.5
##	66	2016-01-12	10:07:29	1	0.1	6.6
##	67	2016-01-12	21:17:15	1	0.1	6.7
	68	2016-01-13		1	0.1	6.8
	69	2016-01-13		1	0.1	6.9
	70	2016-01-13		1	0.1	7.0
	71	2016-01-14		1	0.1	7.1
	72	2016-01-14	08:27:04	1	0.1	7.2
##	73	2016-01-14	09:27:59	1	0.1	7.3
##	74	2016-01-14	14:00:09	1	0.1	7.4
##	75	2016-01-14	16:30:38	1	0.1	7.5
##	76	2016-01-14	20:58:10	1	0.1	7.6
##	77	2016-01-15		1	0.1	7.7
##	78	2016-01-15		1	0.1	7.8
	79			1		
		2016-01-15			0.1	7.9
	80	2016-01-15		1	0.1	8.0
	81	2016-01-16		1	0.1	8.1
##	82	2016-01-16	11:35:01	1	0.1	8.2
##	83	2016-01-16	16:40:30	1	0.1	8.3
##	84	2016-01-16	17:56:05	1	0.1	8.4
##	85	2016-01-16	23:37:51	1	0.1	8.5
##	86	2016-01-17	04:12:30	1	0.1	8.6
##	87	2016-01-17	05:07:11	1	0.1	8.7
	88	2016-01-17	09:31:36	1	0.1	8.8
	89	2016-01-17		1	0.1	8.9
	90	2016-01-17		1	0.1	9.0
	91	2016-01-17		1	0.1	9.1
	92			1		
		2016-01-18			0.1	9.2
	93	2016-01-18		1	0.1	9.3
	94	2016-01-19		1	0.1	9.4
	95	2016-01-20		1	0.1	9.5
##	96	2016-01-20	02:31:36	1	0.1	9.6
##	97	2016-01-20	19:09:37	1	0.1	9.7
##	98	2016-01-21	04:30:43	1	0.1	9.8
##	99	2016-01-21	18:51:01	1	0.1	9.9
##	100	2016-01-21	22:51:34	1	0.1	10.0
##	101	2016-01-21	23:33:22	1	0.1	10.1
	102	2016-01-21		1	0.1	10.2
	103	2016-01-22		1	0.1	10.3
	104	2016-01-22		1	0.1	10.4
##	105	2016-01-22		1	0.1	10.5
##	106	2016-01-23		1	0.1	10.6
##	107	2016-01-23		1	0.1	10.7
##	108	2016-01-23		1	0.1	10.8
##	109	2016-01-23		1	0.1	10.9
##	110	2016-01-23		1	0.1	11.0
##	111	2016-01-23	18:59:21	1	0.1	11.1
##	112	2016-01-23	21:15:57	1	0.1	11.2
##	113	2016-01-24	01:53:14	1	0.1	11.3
##	114	2016-01-24	13:41:38	1	0.1	11.4
	115	2016-01-25		1	0.1	11.5
	116	2016-01-25		1	0.1	11.6
	117	2016-01-26		1	0.1	11.7
ππ	T T I	2010 01 20	VZ. II. II	1	0.1	11.1

##	118	2016-01-26	03:56:18	1	0.1	11.8
##	119	2016-01-26	15:56:55	1	0.1	11.9
##	120	2016-01-27	12:38:16	1	0.1	12.0
	121	2016-01-27		1	0.1	12.1
##	122	2016-01-27		1	0.1	12.2
##	123	2016-01-27		1	0.1	12.3
	124	2016-01-27		1	0.1	12.4
	125	2016-01-27		1	0.1	12.5
	126	2016-01-27		1	0.1	12.6
##	127	2016-01-28		1	0.1	12.7
##	128	2016-01-28		1	0.1	12.8
##	129	2016-01-28	16:42:36	1	0.1	12.9
##	130	2016-01-28	17:03:54	1	0.1	13.0
##	131	2016-01-28	20:59:32	1	0.1	13.1
##	132	2016-01-29	00:45:19	1	0.1	13.2
##	133	2016-01-29	03:54:19	1	0.1	13.3
##	134	2016-01-29	05:39:16	1	0.1	13.4
##	135	2016-01-29		1	0.1	13.5
	136	2016-01-29		1	0.1	13.6
	137	2016-01-30		1	0.1	13.7
	138	2016-01-30		1	0.1	13.8
	139	2016-01-30		1		13.9
					0.1	
##	140	2016-01-30		1	0.1	14.0
##	141	2016-01-30		1	0.1	14.1
##	142	2016-01-30		1	0.1	14.2
##	143	2016-01-31		1	0.1	14.3
##	144	2016-01-31	05:12:44	1	0.1	14.4
##	145	2016-01-31	06:14:10	1	0.1	14.5
##	146	2016-01-31	08:50:38	1	0.1	14.6
##	147	2016-01-31	09:57:34	1	0.1	14.7
##	148	2016-02-01	00:52:29	1	0.1	14.8
##	149	2016-02-01	09:00:55	1	0.1	14.9
##	150	2016-02-01	14:37:34	1	0.1	15.0
##	151	2016-02-01		1	0.1	15.1
##	152	2016-02-01		1	0.1	15.2
##	153	2016-02-01		1	0.1	15.3
##	154	2016-02-02		1	0.1	15.4
						15.5
##	155	2016-02-02		1	0.1	
##	156	2016-02-02		1	0.1	15.6
##	157	2016-02-02		1	0.1	15.7
##	158	2016-02-03		1	0.1	15.8
##	159	2016-02-03		1	0.1	15.9
##	160	2016-02-03	07:59:16	1	0.1	16.0
##	161	2016-02-03	10:40:27	1	0.1	16.1
##	162	2016-02-03	15:15:42	1	0.1	16.2
##	163	2016-02-03	16:54:33	1	0.1	16.3
##	164	2016-02-03	19:12:51	1	0.1	16.4
##	165	2016-02-03	22:11:13	1	0.1	16.5
##	166	2016-02-03		1	0.1	16.6
##	167	2016-02-04		1	0.1	16.7
##	168	2016-02-04		1	0.1	16.8
##	169	2016-02-04		1	0.1	16.9
##	170	2016-02-04		1	0.1	17.0
##	171	2016-02-04				
##	1/1	2010-02-05	15:20:31	1	0.1	17.1

##	172	2016-02-05	16:50:58	1	0.1	17.2
##	173	2016-02-05	19:06:01	1	0.1	17.3
##	174	2016-02-06	17:48:28	1	0.1	17.4
##	175	2016-02-06	23:08:57	1	0.1	17.5
##	176	2016-02-07	07:41:06	1	0.1	17.6
##	177	2016-02-07	08:02:31	1	0.1	17.7
##	178	2016-02-07	17:06:35	1	0.1	17.8
##	179	2016-02-08	00:23:38	1	0.1	17.9
##	180	2016-02-08	07:33:22	1	0.1	18.0
##	181	2016-02-08	10:46:14	1	0.1	18.1
##	182	2016-02-08	14:02:22	1	0.1	18.2
##	183	2016-02-08	22:45:26	1	0.1	18.3
##	184	2016-02-09	05:28:18	1	0.1	18.4
##	185	2016-02-09	07:21:25	1	0.1	18.5
##	186	2016-02-09	19:37:52	1	0.1	18.6
##	187	2016-02-09	22:04:54	1	0.1	18.7
##	188	2016-02-09	23:38:30	1	0.1	18.8
##	189	2016-02-10	06:37:56	1	0.1	18.9
##	190	2016-02-10	06:52:07	1	0.1	19.0
##	191	2016-02-10	08:21:13	1	0.1	19.1
##	192	2016-02-10	13:46:35	1	0.1	19.2
##	193	2016-02-10	15:23:17	1	0.1	19.3
##	194	2016-02-10	19:20:51	1	0.1	19.4
##	195	2016-02-10	20:43:38	1	0.1	19.5
	196	2016-02-11		1	0.1	19.6
	197	2016-02-11		1	0.1	19.7
##	198	2016-02-11		1	0.1	19.8
##	199	2016-02-11		1	0.1	19.9
	200	2016-02-11		1	0.1	20.0
	201	2016-02-11		1	0.1	20.1
	202	2016-02-11		1	0.1	20.2
	203	2016-02-11		1	0.1	20.3
	204	2016-02-11		1	0.1	20.4
	205	2016-02-12		1	0.1	20.5
	206	2016-02-12		1	0.1	20.6
	207 208	2016-02-12 2016-02-12		1	0.1	20.7
		2016-02-12		1 1	0.1	20.8
	209	2016-02-12			0.1	20.9
	210	2016-02-12		1 1	0.1 0.1	21.0 21.1
	212	2016-02-13		1	0.1	21.2
	213	2016-02-13		1	0.1	21.3
	214	2016-02-13		1	0.1	21.4
	215	2016-02-13		1	0.1	21.5
	216	2016-02-14		1	0.1	21.6
	217	2016-02-14		1	0.1	21.7
	218	2016-02-14		1	0.1	21.8
	219	2016-02-14		1	0.1	21.9
	220	2016-02-14		1	0.1	22.0
	221	2016-02-14		1	0.1	22.1
	222	2016-02-14		1	0.1	22.2
	223	2016-02-14		1	0.1	22.3
	224	2016-02-14		1	0.1	22.4
##	225	2016-02-14	16:33:29	1	0.1	22.5

##	226	2016-02-14	17:05:15	1	0.1	22.6
##	227	2016-02-14	22:23:30	1	0.1	22.7
##	228	2016-02-15	03:43:55	1	0.1	22.8
##	229	2016-02-15	05:35:54	1	0.1	22.9
	230	2016-02-15		1	0.1	23.0
	231	2016-02-15		1	0.1	23.1
	232	2016-02-15		1	0.1	23.2
	233	2016-02-15		1	0.1	23.3
	234	2016-02-15		1	0.1	23.4
##	235	2016-02-15	16:52:04	1	0.1	23.5
##	236	2016-02-15	20:41:05	1	0.1	23.6
##	237	2016-02-16	02:29:03	1	0.1	23.7
##	238	2016-02-16	07:37:28	1	0.1	23.8
##	239	2016-02-16	09:11:27	1	0.1	23.9
##	240	2016-02-16		1	0.1	24.0
##	241	2016-02-16		1	0.1	24.1
##	242	2016-02-17		1	0.1	24.2
##	243	2016-02-17				
				1	0.1	24.3
	244	2016-02-17		1	0.1	24.4
	245	2016-02-17		1	0.1	24.5
	246	2016-02-17		1	0.1	24.6
##	247	2016-02-17	18:50:57	1	0.1	24.7
##	248	2016-02-17	20:22:49	1	0.1	24.8
##	249	2016-02-17	21:55:29	1	0.1	24.9
##	250	2016-02-17	23:47:00	1	0.1	25.0
##	251	2016-02-18	03:58:36	1	0.1	25.1
##	252	2016-02-18	22:42:33	1	0.1	25.2
##	253	2016-02-18	23:08:59	1	0.1	25.3
##	254	2016-02-19	07:29:30	1	0.1	25.4
##	255	2016-02-19		1	0.1	25.5
##	256	2016-02-19		1	0.1	25.6
##	257	2016-02-20		1	0.1	25.7
##	258	2016-02-20		1	0.1	25.8
##	259	2016-02-20		1	0.1	25.9
##	260	2016-02-20		1	0.1	26.0
##	261	2016-02-21		1	0.1	26.1
##	262	2016-02-21	07:42:48	1	0.1	26.2
##	263	2016-02-21	13:11:08	1	0.1	26.3
##	264	2016-02-21	16:57:59	1	0.1	26.4
##	265	2016-02-21	20:09:12	1	0.1	26.5
##	266	2016-02-21	23:07:11	1	0.1	26.6
##	267	2016-02-22	07:04:05	1	0.1	26.7
	268	2016-02-23		1	0.1	26.8
	269	2016-02-23		1	0.1	26.9
	270	2016-02-24		1	0.1	27.0
	271	2016-02-24		1	0.1	27.1
	272			1		
		2016-02-24			0.1	27.2
	273	2016-02-24		1	0.1	27.3
	274	2016-02-24		1	0.1	27.4
	275	2016-02-24		1	0.1	27.5
	276	2016-02-24		1	0.1	27.6
##	277	2016-02-25	16:33:24	1	0.1	27.7
##	278	2016-02-26	01:18:44	1	0.1	27.8
##	279	2016-02-26	04:57:14	1	0.1	27.9

	000	0040 00 00	00 00 10	_	A 4	00.0
	280	2016-02-26	06:00:16	1	0.1	28.0
##	281	2016-02-26	09:18:48	1	0.1	28.1
##	282	2016-02-26	09:54:33	1	0.1	28.2
##	283	2016-02-26	17:01:01	1	0.1	28.3
	284	2016-02-26		1	0.1	28.4
	285	2016-02-26		1	0.1	28.5
	286	2016-02-26		1	0.1	28.6
	287	2016-02-26		1	0.1	28.7
##	288	2016-02-26		1	0.1	28.8
##	289	2016-02-27	04:43:07	1	0.1	28.9
##	290	2016-02-27	08:52:50	1	0.1	29.0
##	291	2016-02-27	12:34:19	1	0.1	29.1
##	292	2016-02-27	13:51:44	1	0.1	29.2
##	293	2016-02-27		1	0.1	29.3
##	294	2016-02-27		1	0.1	29.4
	295	2016-02-28		1		
					0.1	29.5
	296	2016-02-28		1	0.1	29.6
	297	2016-02-28		1	0.1	29.7
##	298	2016-02-28	18:52:44	1	0.1	29.8
##	299	2016-02-28	22:02:14	1	0.1	29.9
##	300	2016-02-28	23:10:32	1	0.1	30.0
##	301	2016-02-28	23:21:22	1	0.1	30.1
##	302	2016-02-28	23:54:44	1	0.1	30.2
	303	2016-02-29		1	0.1	30.3
	304	2016-02-29		1	0.1	30.4
	305	2016-02-29		1	0.1	30.5
##	306	2016-02-29		1	0.1	30.6
##	307	2016-02-29		1	0.1	30.7
##	308	2016-03-01		1	0.1	30.8
##	309	2016-03-01		1	0.1	30.9
##	310	2016-03-01	22:13:37	1	0.1	31.0
##	311	2016-03-02	04:02:45	1	0.1	31.1
##	312	2016-03-02	04:57:51	1	0.1	31.2
##	313	2016-03-02	05:11:01	1	0.1	31.3
##	314	2016-03-02	06:35:08	1	0.1	31.4
##	315	2016-03-02	10:07:43	1	0.1	31.5
	316	2016-03-02		1	0.1	31.6
	317	2016-03-03		1	0.1	31.7
	318	2016-03-03		1	0.1	31.8
		2016-03-03				
	319			1	0.1	31.9
	320	2016-03-03		1	0.1	32.0
	321	2016-03-03		1	0.1	32.1
	322	2016-03-04		1	0.1	32.2
##	323	2016-03-04	10:13:48	1	0.1	32.3
##	324	2016-03-04	13:47:47	1	0.1	32.4
##	325	2016-03-04	14:10:12	1	0.1	32.5
##	326	2016-03-04	14:33:38	1	0.1	32.6
##	327	2016-03-05	12:03:41	1	0.1	32.7
	328	2016-03-05		1	0.1	32.8
	329	2016-03-05		1	0.1	32.9
	330	2016-03-06		1	0.1	33.0
	331	2016-03-06		1	0.1	33.1
	332			1		
		2016-03-06			0.1	33.2
##	333	2016-03-06	23:20:44	1	0.1	33.3

##	334	2016-03-07	01:40:15	1	0.1	33.4
##	335	2016-03-07	20:02:51	1	0.1	33.5
##	336	2016-03-07	22:32:15	1	0.1	33.6
##	337	2016-03-07	22:51:00	1	0.1	33.7
	338	2016-03-08		1	0.1	33.8
	339	2016-03-08		1	0.1	33.9
	340	2016-03-08		1	0.1	34.0
	341	2016-03-08			0.1	
				1		34.1
	342	2016-03-08		1	0.1	34.2
	343	2016-03-09		1	0.1	34.3
	344	2016-03-09		1	0.1	34.4
	345	2016-03-09		1	0.1	34.5
##	346	2016-03-09	06:22:03	1	0.1	34.6
##	347	2016-03-09	12:10:08	1	0.1	34.7
##	348	2016-03-09	14:45:33	1	0.1	34.8
##	349	2016-03-09	14:57:11	1	0.1	34.9
##	350	2016-03-10	01:36:19	1	0.1	35.0
##	351	2016-03-10	07:07:31	1	0.1	35.1
##	352	2016-03-10	15:07:44	1	0.1	35.2
	353	2016-03-10		1	0.1	35.3
	354	2016-03-10		1	0.1	35.4
	355	2016-03-10		1	0.1	35.5
	356	2016-03-11		1	0.1	
		2016-03-11				35.6
	357			1	0.1	35.7
	358	2016-03-11		1	0.1	35.8
	359	2016-03-11		1	0.1	35.9
##	360	2016-03-11		1	0.1	36.0
##	361	2016-03-11		1	0.1	36.1
##	362	2016-03-11	14:50:56	1	0.1	36.2
##	363	2016-03-12	01:39:19	1	0.1	36.3
##	364	2016-03-12	02:48:18	1	0.1	36.4
##	365	2016-03-12	06:05:12	1	0.1	36.5
##	366	2016-03-12	07:18:36	1	0.1	36.6
##	367	2016-03-13	13:50:25	1	0.1	36.7
##	368	2016-03-13	20:35:42	1	0.1	36.8
##	369	2016-03-14	03:29:12	1	0.1	36.9
##	370	2016-03-14		1	0.1	37.0
	371	2016-03-14		1	0.1	37.1
	372	2016-03-14		1	0.1	37.2
	373	2016-03-14		1	0.1	37.3
	374	2016-03-15		1		
					0.1	37.4
	375	2016-03-15		1	0.1	37.5
	376	2016-03-15		1	0.1	37.6
	377	2016-03-15		1	0.1	37.7
	378	2016-03-15		1	0.1	37.8
	379	2016-03-15		1	0.1	37.9
	380	2016-03-15		1	0.1	38.0
##	381	2016-03-15	19:35:19	1	0.1	38.1
##	382	2016-03-15	20:19:20	1	0.1	38.2
##	383	2016-03-16	00:28:10	1	0.1	38.3
##	384	2016-03-16		1	0.1	38.4
	385	2016-03-16		1	0.1	38.5
	386	2016-03-16		1	0.1	38.6
	387	2016-03-16		1	0.1	38.7
11	551	_010 00 10	_0.00.10	1	0.1	55.1

##	388	2016-03-17	05:00:12	1	0.1	38.8
##	389	2016-03-17	06:25:47	1	0.1	38.9
##	390	2016-03-17	22:24:02	1	0.1	39.0
##	391	2016-03-17	22:59:46	1	0.1	39.1
	392	2016-03-17		1	0.1	39.2
	393	2016-03-18		1	0.1	39.3
	394	2016-03-18		1	0.1	39.4
	395	2016-03-18		1	0.1	39.5
##	396	2016-03-18	13:22:35	1	0.1	39.6
##	397	2016-03-18	16:04:59	1	0.1	39.7
##	398	2016-03-18	17:35:40	1	0.1	39.8
##	399	2016-03-19	00:27:58	1	0.1	39.9
##	400	2016-03-19	08:00:58	1	0.1	40.0
##	401	2016-03-19		1	0.1	40.1
##	402	2016-03-19		1	0.1	40.2
##						
	403	2016-03-19		1	0.1	40.3
##	404	2016-03-20		1	0.1	40.4
##	405	2016-03-20		1	0.1	40.5
##	406	2016-03-20	08:22:50	1	0.1	40.6
##	407	2016-03-20	22:27:25	1	0.1	40.7
##	408	2016-03-21	08:13:24	1	0.1	40.8
##	409	2016-03-21	11:02:49	1	0.1	40.9
##	410	2016-03-21	18:46:41	1	0.1	41.0
	411	2016-03-21		1	0.1	41.1
	412	2016-03-22		1	0.1	41.2
	413	2016-03-22		1	0.1	41.3
	414	2016-03-22		1	0.1	41.4
		2016-03-23				
	415			1	0.1	41.5
	416	2016-03-23		1	0.1	41.6
##	417	2016-03-23		1	0.1	41.7
##	418	2016-03-23	09:43:43	1	0.1	41.8
##	419	2016-03-23	12:53:23	1	0.1	41.9
##	420	2016-03-23	19:58:15	1	0.1	42.0
##	421	2016-03-23	21:06:51	1	0.1	42.1
##	422	2016-03-24	02:01:55	1	0.1	42.2
##	423	2016-03-24	02:35:54	1	0.1	42.3
	424	2016-03-24		1	0.1	42.4
	425	2016-03-24		1	0.1	42.5
	426	2016-03-24		1		42.6
					0.1	
	427	2016-03-24		1	0.1	42.7
	428	2016-03-24		1	0.1	42.8
	429	2016-03-24		1	0.1	42.9
	430	2016-03-24		1	0.1	43.0
##	431	2016-03-25	05:05:27	1	0.1	43.1
##	432	2016-03-25	06:36:53	1	0.1	43.2
##	433	2016-03-25	08:40:15	1	0.1	43.3
##	434	2016-03-25	15:17:39	1	0.1	43.4
##	435	2016-03-25	19:02:35	1	0.1	43.5
	436	2016-03-26		1	0.1	43.6
	437	2016-03-26		1	0.1	43.7
	438	2016-03-26		1	0.1	43.8
	439	2016-03-26		1	0.1	43.9
				1		
	440	2016-03-27			0.1	44.0
##	441	2016-03-27	02:35:29	1	0.1	44.1

##	442	2016-03-27	03:59:26	1	0.1	44.2
##	443	2016-03-27	08:32:37	1	0.1	44.3
##	444	2016-03-27	09:11:10	1	0.1	44.4
##	445	2016-03-27	16:41:29	1	0.1	44.5
##	446	2016-03-27		1	0.1	44.6
	447	2016-03-27		1	0.1	44.7
	448	2016-03-28		1	0.1	44.8
	449	2016-03-28		1	0.1	44.9
	450	2016-03-28		1	0.1	45.0
	451	2016-03-28		1	0.1	45.1
		2016-03-28				
	452			1	0.1	45.2
	453	2016-03-30		1	0.1	45.3
	454	2016-03-30		1	0.1	45.4
	455	2016-03-30		1	0.1	45.5
	456	2016-03-30		1	0.1	45.6
	457	2016-03-30		1	0.1	45.7
	458	2016-03-30		1	0.1	45.8
	459	2016-03-30		1	0.1	45.9
##	460	2016-03-31	08:53:43	1	0.1	46.0
##	461	2016-03-31	10:44:46	1	0.1	46.1
##	462	2016-03-31	13:54:51	1	0.1	46.2
##	463	2016-03-31	20:55:22	1	0.1	46.3
##	464	2016-04-01	01:57:12	1	0.1	46.4
##	465	2016-04-01	05:17:28	1	0.1	46.5
##	466	2016-04-01	07:37:18	1	0.1	46.6
##	467	2016-04-01	09:21:14	1	0.1	46.7
##	468	2016-04-01	16:21:05	1	0.1	46.8
##	469	2016-04-03	05:10:31	1	0.1	46.9
##	470	2016-04-03	06:17:22	1	0.1	47.0
##	471	2016-04-03	10:07:56	1	0.1	47.1
##	472	2016-04-03	11:38:36	1	0.1	47.2
##	473	2016-04-03	21:13:46	1	0.1	47.3
##	474	2016-04-04	00:02:20	1	0.1	47.4
##	475	2016-04-04	01:39:02	1	0.1	47.5
##	476	2016-04-04	03:57:48	1	0.1	47.6
##	477	2016-04-04	07:07:46	1	0.1	47.7
	478	2016-04-04		1	0.1	47.8
##	479	2016-04-04	11:39:51	1	0.1	47.9
	480	2016-04-04		1	0.1	48.0
	481	2016-04-04		1	0.1	48.1
	482	2016-04-04		1	0.1	48.2
	483	2016-04-04		1	0.1	48.3
	484	2016-04-04		1	0.1	48.4
	485	2016-04-04		1	0.1	48.5
	486	2016-04-05		1	0.1	48.6
	487	2016-04-05		1	0.1	48.7
	488	2016-04-05		1	0.1	48.8
	489	2016-04-05		1	0.1	48.9
		2016-04-06		1		
	490	2016-04-06			0.1	49.0
	491			1	0.1	49.1
	492	2016-04-06		1	0.1	49.2
	493	2016-04-06		1	0.1	49.3
	494	2016-04-06		1	0.1	49.4
##	495	2016-04-06	23:10:40	1	0.1	49.5

##	496	2016-04-07	01:57:38	1	0.1	49.6
##	497	2016-04-07	03:56:16	1	0.1	49.7
##	498	2016-04-07	10:51:05	1	0.1	49.8
	499	2016-04-07		1	0.1	49.9
	500	2016-04-07		1	0.1	50.0
	501					
		2016-04-07		1	0.1	50.1
	502	2016-04-07		1	0.1	50.2
	503	2016-04-07	20:38:02	1	0.1	50.3
##	504	2016-04-08	14:35:44	1	0.1	50.4
##	505	2016-04-08	22:40:55	1	0.1	50.5
##	506	2016-04-08	22:48:25	1	0.1	50.6
##	507	2016-04-09	09:26:39	1	0.1	50.7
##	508	2016-04-09	16:31:15	1	0.1	50.8
	509	2016-04-09		1	0.1	50.9
	510	2016-04-10		1	0.1	51.0
	511	2016-04-10		1	0.1	51.1
	512	2016-04-10		1	0.1	51.2
##	513	2016-04-10	06:32:11	1	0.1	51.3
##	514	2016-04-10	14:48:35	1	0.1	51.4
##	515	2016-04-10	16:08:09	1	0.1	51.5
##	516	2016-04-10	19:48:01	1	0.1	51.6
##	517	2016-04-12	03:26:39	1	0.1	51.7
	518	2016-04-12		1	0.1	51.8
	519	2016-04-12		1	0.1	51.9
	520	2016-04-12		1	0.1	52.0
	521	2016-04-13		1	0.1	52.1
	522	2016-04-13		1	0.1	52.2
##	523	2016-04-13	13:04:47	1	0.1	52.3
##	524	2016-04-14	05:08:35	1	0.1	52.4
##	525	2016-04-14	21:37:49	1	0.1	52.5
##	526	2016-04-15	06:08:35	1	0.1	52.6
##	527	2016-04-15	10:16:49	1	0.1	52.7
	528	2016-04-15		1	0.1	52.8
	529	2016-04-15		1	0.1	52.9
	530	2016-04-15		1	0.1	53.0
	531	2016-04-15		1	0.1	53.1
##	532	2016-04-16	05:24:33	1	0.1	53.2
##	533	2016-04-16	08:36:08	1	0.1	53.3
##	534	2016-04-16	10:36:49	1	0.1	53.4
##	535	2016-04-16	11:53:43	1	0.1	53.5
##	536	2016-04-16	12:09:25	1	0.1	53.6
##	537	2016-04-16	12:26:31	1	0.1	53.7
##	538	2016-04-16	14:15:55	1	0.1	53.8
	539	2016-04-16		1	0.1	53.9
	540	2016-04-17		1	0.1	54.0
	541	2016-04-17		1	0.1	54.1
	542	2016-04-17		1	0.1	54.2
				1		
	543	2016-04-17			0.1	54.3
	544	2016-04-17		1	0.1	54.4
	545	2016-04-17		1	0.1	54.5
	546	2016-04-18		1	0.1	54.6
	547	2016-04-18		1	0.1	54.7
##	548	2016-04-18	07:00:38	1	0.1	54.8
##	549	2016-04-18	09:33:42	1	0.1	54.9

	<b></b> 0	0046 04 40	44 00 05	4	0 1	FF 0
	550	2016-04-18		1	0.1	55.0
	551	2016-04-18	15:54:33	1	0.1	55.1
##	552	2016-04-18	21:07:28	1	0.1	55.2
##	553	2016-04-19	05:15:28	1	0.1	55.3
##	554	2016-04-19	07:34:28	1	0.1	55.4
##	555	2016-04-19	15:14:58	1	0.1	55.5
##	556	2016-04-20	00:41:53	1	0.1	55.6
##	557	2016-04-20	10:04:29	1	0.1	55.7
##	558	2016-04-20	13:36:42	1	0.1	55.8
	559	2016-04-20		1	0.1	55.9
	560	2016-04-20		1	0.1	56.0
	561	2016-04-21		1	0.1	56.1
	562	2016-04-21		1	0.1	56.2
	563	2016-04-21		1	0.1	56.3
	564	2016-04-21		1	0.1	56.4
	565	2016 04 21		1		
					0.1	56.5
	566	2016-04-21		1	0.1	56.6
	567	2016-04-22		1	0.1	56.7
	568	2016-04-22		1	0.1	56.8
	569	2016-04-22		1	0.1	56.9
	570	2016-04-22		1	0.1	57.0
	571	2016-04-22		1	0.1	57.1
	572	2016-04-22		1	0.1	57.2
	573	2016-04-22		1	0.1	57.3
	574	2016-04-22		1	0.1	57.4
	575	2016-04-23		1	0.1	57.5
	576	2016-04-23		1	0.1	57.6
##	577	2016-04-23		1	0.1	57.7
##	578	2016-04-23	09:42:08	1	0.1	57.8
##	579	2016-04-23	14:34:38	1	0.1	57.9
##	580	2016-04-24	01:48:21	1	0.1	58.0
##	581	2016-04-24	07:20:16	1	0.1	58.1
##	582	2016-04-24	13:42:15	1	0.1	58.2
##	583	2016-04-24	13:46:10	1	0.1	58.3
##	584	2016-04-25	03:18:45	1	0.1	58.4
##	585	2016-04-25	07:30:21	1	0.1	58.5
##	586	2016-04-25	11:01:54	1	0.1	58.6
##	587	2016-04-25	16:58:50	1	0.1	58.7
##	588	2016-04-25	19:31:39	1	0.1	58.8
##	589	2016-04-25	21:15:39	1	0.1	58.9
##	590	2016-04-26	13:13:20	1	0.1	59.0
##	591	2016-04-26	20:57:48	1	0.1	59.1
	592	2016-04-26		1	0.1	59.2
	593	2016-04-27		1	0.1	59.3
	594	2016-04-27		1	0.1	59.4
	595	2016-04-27		1	0.1	59.5
	596	2016-04-28		1	0.1	59.6
	597	2016-04-28		1	0.1	59.7
	598	2016-04-28		1	0.1	59.8
	599	2016-04-28		1	0.1	59.9
	600	2016-04-28		1	0.1	60.0
	601	2016-04-28		1	0.1	60.1
	602	2016-04-29		1	0.1	60.2
	603	2016 04 29		1	0.1	60.3
πĦ	505	2010 04 29	10.00.13	1	U.1	00.5

##	604	2016-04-29	14:08:26	1	0.1	60.4
##	605	2016-04-29	14:10:00	1	0.1	60.5
##	606	2016-04-29	18:53:43	1	0.1	60.6
##	607	2016-04-29	20:40:21	1	0.1	60.7
##	608	2016-04-30		1	0.1	60.8
##	609	2016-04-30		1	0.1	60.9
	610	2016-04-30		1	0.1	61.0
##	611	2016-05-01		1	0.1	61.1
##	612	2016-05-01		1	0.1	61.2
##	613	2016-05-01		1	0.1	61.3
##	614	2016-05-01	21:46:37	1	0.1	61.4
##	615	2016-05-01	23:21:53	1	0.1	61.5
##	616	2016-05-02	00:01:56	1	0.1	61.6
##	617	2016-05-02	07:00:58	1	0.1	61.7
##	618	2016-05-02	15:31:28	1	0.1	61.8
##	619	2016-05-02		1	0.1	61.9
##	620	2016-05-03		1	0.1	62.0
##	621	2016-05-03		1	0.1	62.1
##	622	2016-05-03		1	0.1	62.2
##	623	2016-05-03		1	0.1	62.3
##	624	2016-05-03		1	0.1	62.4
##	625	2016-05-03		1	0.1	62.5
##	626	2016-05-04	00:01:33	1	0.1	62.6
##	627	2016-05-04	05:01:37	1	0.1	62.7
##	628	2016-05-04	09:00:24	1	0.1	62.8
##	629	2016-05-04	12:06:18	1	0.1	62.9
##	630	2016-05-05	07:58:22	1	0.1	63.0
##	631	2016-05-05	09:28:36	1	0.1	63.1
##	632	2016-05-05	11:07:13	1	0.1	63.2
##	633	2016-05-05		1	0.1	63.3
##	634	2016-05-06		1	0.1	63.4
##	635	2016-05-07		1	0.1	63.5
##	636	2016-05-07		1	0.1	63.6
##	637	2016-05-07		1	0.1	63.7
##	638	2016-05-07		1	0.1	63.8
##	639	2016-05-08		1	0.1	63.9
##	640	2016-05-08	10:25:08	1	0.1	64.0
##	641	2016-05-08	12:08:26	1	0.1	64.1
##	642	2016-05-08	12:12:04	1	0.1	64.2
##	643	2016-05-08	12:51:00	1	0.1	64.3
##	644	2016-05-08	15:38:46	1	0.1	64.4
##	645	2016-05-08	22:24:27	1	0.1	64.5
	646	2016-05-08		1	0.1	64.6
	647	2016-05-09		1	0.1	64.7
	648	2016-05-09		1	0.1	64.8
	649	2016-05-09		1	0.1	64.9
	650			1		
		2016-05-09			0.1	65.0
	651	2016-05-09		1	0.1	65.1
	652	2016-05-10		1	0.1	65.2
	653	2016-05-10		1	0.1	65.3
	654	2016-05-10		1	0.1	65.4
	655	2016-05-10		1	0.1	65.5
	656	2016-05-10	17:39:06	1	0.1	65.6
##	657	2016-05-11	19:13:42	1	0.1	65.7

##	658	2016-05-11	22:02:17	1	0.1	65.8
##	659	2016-05-12	04:35:59	1	0.1	65.9
##	660	2016-05-12	12:11:12	1	0.1	66.0
##	661	2016-05-12	20:57:10	1	0.1	66.1
##	662	2016-05-12		1	0.1	66.2
##	663	2016-05-13		1	0.1	66.3
		2016-05-13				
##	664			1	0.1	66.4
##	665	2016-05-13		1	0.1	66.5
##	666	2016-05-13		1	0.1	66.6
##	667	2016-05-14	14:49:05	1	0.1	66.7
##	668	2016-05-14	23:08:14	1	0.1	66.8
##	669	2016-05-15	01:03:06	1	0.1	66.9
##	670	2016-05-15	03:10:50	1	0.1	67.0
##	671	2016-05-15	13:18:34	1	0.1	67.1
##	672	2016-05-15		1	0.1	67.2
##	673	2016-05-15		1	0.1	67.3
##	674	2016-05-15		1	0.1	67.4
##	675	2016-05-16		1	0.1	67.5
	676	2016-05-16		1	0.1	67.6
##	677	2016-05-16		1		
					0.1	67.7
##	678	2016-05-17		1	0.1	67.8
##	679	2016-05-17		1	0.1	67.9
##	680	2016-05-17		1	0.1	68.0
##	681	2016-05-18	00:07:43	1	0.1	68.1
##	682	2016-05-18	01:00:52	1	0.1	68.2
##	683	2016-05-18	03:19:03	1	0.1	68.3
##	684	2016-05-18	19:33:51	1	0.1	68.4
##	685	2016-05-19	03:52:24	1	0.1	68.5
##	686	2016-05-19	04:23:41	1	0.1	68.6
##	687	2016-05-19	06:37:38	1	0.1	68.7
##	688	2016-05-19		1	0.1	68.8
##	689	2016-05-19		1	0.1	68.9
##	690	2016-05-19		1	0.1	69.0
##	691	2016-05-20		1	0.1	69.1
##	692	2016-05-20		1	0.1	69.2
##	693	2016-05-20		1	0.1	69.3
##	694	2016-05-20		1	0.1	69.4
	695	2016-05-20		1	0.1	69.5
	696	2016-05-21		1	0.1	69.6
	697	2016-05-22		1	0.1	69.7
##	698	2016-05-22	15:17:25	1	0.1	69.8
##	699	2016-05-22		1	0.1	69.9
##	700	2016-05-22	21:54:23	1	0.1	70.0
##	701	2016-05-23	00:32:54	1	0.1	70.1
##	702	2016-05-23	02:15:04	1	0.1	70.2
##	703	2016-05-23	08:06:24	1	0.1	70.3
##	704	2016-05-23	21:00:45	1	0.1	70.4
	705	2016-05-23		1	0.1	70.5
##	706	2016-05-24		1	0.1	70.6
	707	2016-05-24		1	0.1	70.7
	708	2016-05-24		1	0.1	70.7
	709	2016-05-24		1	0.1	70.8
	710	2016-05-24		1	0.1	71.0
##	711	2016-05-24	17:42:58	1	0.1	71.1

##	712	2016-05-24		1	0.1	71.2
##	713	2016-05-25	00:19:57	1	0.1	71.3
##	714	2016-05-25	00:34:59	1	0.1	71.4
	715	2016-05-25		1	0.1	71.5
	716	2016-05-25		1	0.1	71.6
##	717	2016-05-25	20:10:02	1	0.1	71.7
##	718	2016-05-26	06:03:57	1	0.1	71.8
##	719	2016-05-26	10:33:00	1	0.1	71.9
##	720	2016-05-26	13:18:30	1	0.1	72.0
	721	2016-05-26		1	0.1	72.1
	722	2016-05-26		1	0.1	72.2
##	723	2016-05-26	15:40:12	1	0.1	72.3
##	724	2016-05-26	15:40:26	1	0.1	72.4
##	725	2016-05-26	22:49:47	1	0.1	72.5
##	726	2016-05-27	05:23:26	1	0.1	72.6
##	727	2016-05-27		1	0.1	72.7
##	728	2016-05-27		1	0.1	72.8
##	729	2016-05-27	06:19:27	1	0.1	72.9
##	730	2016-05-27	08:53:51	1	0.1	73.0
##	731	2016-05-27	12:45:37	1	0.1	73.1
##	732	2016-05-27		1	0.1	73.2
	733	2016-05-27		1		
					0.1	73.3
	734	2016-05-28		1	0.1	73.4
##	735	2016-05-28	12:38:37	1	0.1	73.5
##	736	2016-05-28	20:41:50	1	0.1	73.6
##	737	2016-05-29	07:29:27	1	0.1	73.7
##	738	2016-05-29	18:12:00	1	0.1	73.8
	739	2016-05-29		1	0.1	73.9
	740			1		
		2016-05-30			0.1	74.0
	741	2016-05-30		1	0.1	74.1
##	742	2016-05-30	08:02:27	1	0.1	74.2
##	743	2016-05-30	08:02:35	1	0.1	74.3
##	744	2016-05-30	08:35:54	1	0.1	74.4
##	745	2016-05-30	18:08:19	1	0.1	74.5
	746	2016-05-30		1	0.1	74.6
	747	2016-05-30		1	0.1	74.7
##	748	2016-05-30		1	0.1	74.8
##	749	2016-05-31	00:58:37	1	0.1	74.9
##	750	2016-05-31	02:17:18	1	0.1	75.0
##	751	2016-05-31	06:21:02	1	0.1	75.1
	752	2016-05-31	09:06:29	1	0.1	75.2
	753	2016-05-31		1	0.1	75.3
	754	2016-05-31		1	0.1	75.4
	755	2016-05-31	21:41:46	1	0.1	75.5
##	756	2016-05-31	23:32:00	1	0.1	75.6
##	757	2016-05-31	23:42:26	1	0.1	75.7
##	758	2016-06-01		1	0.1	75.8
##	759	2016-06-01		1	0.1	75.9
##	760	2016-06-01		1	0.1	76.0
##	761	2016-06-01		1	0.1	76.1
##	762	2016-06-01	16:10:30	1	0.1	76.2
##	763	2016-06-02	04:14:37	1	0.1	76.3
	764	2016-06-02		1	0.1	76.4
	765	2016-06-02		1	0.1	76.5
πĦ	100	2010 00 02	22.10.00	1	0.1	70.5

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	766	2016-06-03		1	0.1	76.6
	767	2016-06-03		1	0.1	76.7
##	768	2016-06-03	03:36:18	1	0.1	76.8
##	769	2016-06-03	04:51:46	1	0.1	76.9
##	770	2016-06-03	06:34:44	1	0.1	77.0
##	771	2016-06-03	07:00:36	1	0.1	77.1
##	772	2016-06-03	17:32:47	1	0.1	77.2
##	773	2016-06-03	21:43:21	1	0.1	77.3
	774	2016-06-04		1	0.1	77.4
##	775	2016-06-04		1	0.1	77.5
##	776	2016-06-04		1	0.1	77.6
##	777	2016-06-05		1	0.1	77.7
##	778	2016-06-05		1	0.1	77.8
##	779	2016-06-05		1	0.1	77.9
##	780			1		
		2016-06-05			0.1	78.0
##	781	2016-06-05		1	0.1	78.1
##	782	2016-06-06		1	0.1	78.2
##	783	2016-06-06		1	0.1	78.3
	784	2016-06-07		1	0.1	78.4
##	785	2016-06-07		1	0.1	78.5
##	786	2016-06-07		1	0.1	78.6
##	787	2016-06-08	12:25:49	1	0.1	78.7
##	788	2016-06-08	18:54:01	1	0.1	78.8
##	789	2016-06-08	20:13:27	1	0.1	78.9
##	790	2016-06-09	14:24:06	1	0.1	79.0
##	791	2016-06-09	17:11:02	1	0.1	79.1
##	792	2016-06-09	19:32:27	1	0.1	79.2
##	793	2016-06-09	21:43:05	1	0.1	79.3
##	794	2016-06-10	00:35:15	1	0.1	79.4
##	795	2016-06-10	03:56:41	1	0.1	79.5
##	796	2016-06-10	04:21:57	1	0.1	79.6
##	797	2016-06-10	10:11:00	1	0.1	79.7
##	798	2016-06-10		1	0.1	79.8
	799	2016-06-10		1	0.1	79.9
##	800	2016-06-11		1	0.1	80.0
	801	2016-06-11		1	0.1	80.1
	802	2016-06-11		1	0.1	80.2
	803	2016-06-11		1	0.1	80.3
	804	2016-06-12		1	0.1	80.4
	805	2016-06-12		1	0.1	80.5
	806	2016-06-12		1	0.1	80.6
				1		
	807	2016-06-12			0.1	80.7
	808	2016-06-12		1 1	0.1	80.8
	809	2016-06-12			0.1	80.9
	810	2016-06-13		1	0.1	81.0
	811	2016-06-13		1	0.1	81.1
	812	2016-06-13		1	0.1	81.2
	813	2016-06-13		1	0.1	81.3
	814	2016-06-13		1	0.1	81.4
	815	2016-06-13		1	0.1	81.5
	816	2016-06-14		1	0.1	81.6
	817	2016-06-14		1	0.1	81.7
	818	2016-06-14		1	0.1	81.8
##	819	2016-06-14	19:48:34	1	0.1	81.9

##	820	2016-06-15	05:30:13	1	0.1	82.0
##	821	2016-06-15	05:43:02	1	0.1	82.1
	822	2016-06-15	11:56:41	1	0.1	82.2
	823	2016-06-16		1	0.1	82.3
		2016-06-16				
	824			1	0.1	82.4
	825	2016-06-16		1	0.1	82.5
	826	2016-06-16		1	0.1	82.6
##	827	2016-06-16	20:24:33	1	0.1	82.7
##	828	2016-06-17	03:02:55	1	0.1	82.8
##	829	2016-06-17	03:23:13	1	0.1	82.9
##	830	2016-06-17	09:38:22	1	0.1	83.0
##	831	2016-06-17	09:58:46	1	0.1	83.1
##	832	2016-06-17		1	0.1	83.2
##	833	2016-06-17		1	0.1	83.3
##	834					
		2016-06-17		1	0.1	83.4
	835	2016-06-18		1	0.1	83.5
	836	2016-06-18		1	0.1	83.6
##	837	2016-06-18	16:02:34	1	0.1	83.7
##	838	2016-06-18	16:32:58	1	0.1	83.8
##	839	2016-06-18	17:23:26	1	0.1	83.9
##	840	2016-06-18	17:56:32	1	0.1	84.0
##	841	2016-06-18	19:10:14	1	0.1	84.1
##	842	2016-06-18	22:31:22	1	0.1	84.2
	843	2016-06-19		1	0.1	84.3
	844	2016-06-19		1	0.1	84.4
	845	2016-06-19		1	0.1	84.5
	846	2016-06-19		1	0.1	84.6
	847	2016-06-19		1	0.1	84.7
	848	2016-06-19		1	0.1	84.8
	849	2016-06-19		1	0.1	84.9
##	850	2016-06-20	02:25:12	1	0.1	85.0
##	851	2016-06-20	04:24:41	1	0.1	85.1
##	852	2016-06-20	06:30:06	1	0.1	85.2
##	853	2016-06-20	08:22:09	1	0.1	85.3
##	854	2016-06-20	08:34:46	1	0.1	85.4
##	855	2016-06-20	09:35:02	1	0.1	85.5
##	856	2016-06-20		1	0.1	85.6
	857	2016-06-21		1	0.1	85.7
	858	2016-06-21		1	0.1	85.8
		2016-06-21		1		
	859				0.1	85.9
	860	2016-06-21		1	0.1	86.0
	861	2016-06-22		1	0.1	86.1
	862	2016-06-22		1	0.1	86.2
	863	2016-06-22		1	0.1	86.3
##	864	2016-06-23	00:16:02	1	0.1	86.4
##	865	2016-06-23	01:22:43	1	0.1	86.5
##	866	2016-06-23	11:05:01	1	0.1	86.6
##	867	2016-06-24	05:50:22	1	0.1	86.7
##	868	2016-06-24	08:42:20	1	0.1	86.8
	869	2016-06-24		1	0.1	86.9
	870	2016-06-25		1	0.1	87.0
	871	2016-06-25		1	0.1	87.1
	872	2016-06-25		1	0.1	87.2
##	873	2016-06-25	10:11:53	1	0.1	87.3

	074	0046 06 06	00 00 50	4	0.4	07.4
	874	2016-06-26		1	0.1	87.4
##	875	2016-06-26	02:34:15	1	0.1	87.5
##	876	2016-06-26	04:22:26	1	0.1	87.6
##	877	2016-06-26	07:01:47	1	0.1	87.7
##	878	2016-06-26	11:52:18	1	0.1	87.8
##	879	2016-06-26	17:16:26	1	0.1	87.9
##	880	2016-06-26	17:25:55	1	0.1	88.0
##	881	2016-06-27	01:56:36	1	0.1	88.1
	882	2016-06-27		1	0.1	88.2
	883	2016-06-27		1	0.1	88.3
	884	2016-06-28		1	0.1	88.4
	885	2016-06-28		1	0.1	88.5
	886	2016-06-28		1	0.1	88.6
	887	2016-06-29		1	0.1	88.7
	888	2016-06-29		1	0.1	88.8
	889	2016-06-29		1	0.1	88.9
	890	2016-06-29		1	0.1	89.0
	891	2016-06-29		1	0.1	89.1
##	892	2016-06-29	07:20:46	1	0.1	89.2
##	893	2016-06-29	09:04:31	1	0.1	89.3
##	894	2016-06-29	10:50:45	1	0.1	89.4
##	895	2016-06-29	13:35:05	1	0.1	89.5
##	896	2016-06-29	21:39:42	1	0.1	89.6
##	897	2016-06-30	00:19:33	1	0.1	89.7
##	898	2016-06-30	00:40:31	1	0.1	89.8
	899	2016-06-30		1	0.1	89.9
	900	2016-07-01		1	0.1	90.0
	901	2016-07-01		1	0.1	90.1
	902	2016-07-02		1	0.1	90.2
	903	2016-07-02		1		
					0.1	90.3
	904	2016-07-02		1	0.1	90.4
	905	2016-07-02		1	0.1	90.5
	906	2016-07-03		1	0.1	90.6
	907	2016-07-03		1	0.1	90.7
	908	2016-07-03		1	0.1	90.8
##	909	2016-07-03	12:57:03	1	0.1	90.9
##	910	2016-07-03	22:13:19	1	0.1	91.0
##	911	2016-07-04	11:03:49	1	0.1	91.1
##	912	2016-07-04	23:17:47	1	0.1	91.2
##	913	2016-07-05	00:54:11	1	0.1	91.3
##	914	2016-07-05	15:14:10	1	0.1	91.4
##	915	2016-07-05	17:17:49	1	0.1	91.5
	916	2016-07-05	18:59:45	1	0.1	91.6
	917	2016-07-05		1	0.1	91.7
	918	2016-07-05		1	0.1	91.8
	919	2016-07-06		1	0.1	91.9
	920	2016-07-06		1	0.1	92.0
	921	2016-07-06		1	0.1	92.1
	922	2016-07-06		1	0.1	92.2
	923	2016-07-06		1	0.1	92.3
	924	2016-07-06		1	0.1	92.4
	925	2016-07-06		1	0.1	92.5
	926	2016-07-07		1	0.1	92.6
##	927	2016-07-07	12:17:33	1	0.1	92.7

##	928	2016-07-07	13:37:34	1	0.1	92.8
##	929	2016-07-07	18:07:19	1	0.1	92.9
##	930	2016-07-07	23:32:38	1	0.1	93.0
##	931	2016-07-08	03:47:41	1	0.1	93.1
	932	2016-07-08		1	0.1	93.2
	933	2016-07-08		1	0.1	93.3
	934	2016-07-08		1	0.1	93.4
	935	2016-07-09		1	0.1	93.5
	936	2016-07-09	11:18:02	1	0.1	93.6
##	937	2016-07-09	14:55:36	1	0.1	93.7
##	938	2016-07-09	16:23:33	1	0.1	93.8
##	939	2016-07-10	16:25:56	1	0.1	93.9
##	940	2016-07-10	17:24:51	1	0.1	94.0
##	941	2016-07-10	19:15:52	1	0.1	94.1
##	942	2016-07-11		1	0.1	94.2
##	943	2016-07-11		1	0.1	94.3
##	944	2016-07-11		1	0.1	94.4
	945	2016-07-11		1	0.1	94.5
	946	2016-07-11		1	0.1	94.6
	947	2016-07-12		1	0.1	94.7
	948	2016-07-13		1	0.1	94.8
##	949	2016-07-13		1	0.1	94.9
##	950	2016-07-13	07:41:42	1	0.1	95.0
##	951	2016-07-13	11:41:29	1	0.1	95.1
##	952	2016-07-13	14:05:22	1	0.1	95.2
##	953	2016-07-13	14:30:14	1	0.1	95.3
##	954	2016-07-13	16:12:24	1	0.1	95.4
##	955	2016-07-13		1	0.1	95.5
##	956	2016-07-14		1	0.1	95.6
##	957	2016-07-14		1	0.1	95.7
##	958	2016-07-15		1	0.1	95.8
##	959	2016-07-15		1		
					0.1	95.9
##	960	2016-07-15		1	0.1	96.0
##	961	2016-07-15		1	0.1	96.1
##	962	2016-07-16		1	0.1	96.2
##	963	2016-07-16		1	0.1	96.3
##	964	2016-07-16	14:13:54	1	0.1	96.4
##	965	2016-07-16	23:08:54	1	0.1	96.5
##	966	2016-07-17	01:13:56	1	0.1	96.6
##	967	2016-07-17	01:58:53	1	0.1	96.7
##	968	2016-07-17	13:22:43	1	0.1	96.8
	969	2016-07-17		1	0.1	96.9
	970	2016-07-17		1	0.1	97.0
	971	2016-07-17		1	0.1	97.1
	972	2016-07-18		1	0.1	97.2
	973	2016-07-18		1	0.1	97.3
	974	2016-07-18		1	0.1	97.4
	975	2016-07-18		1	0.1	97.5
	976	2016-07-18		1	0.1	97.6
	977	2016-07-19		1	0.1	97.7
	978	2016-07-19		1	0.1	97.8
##	979	2016-07-19	12:05:58	1	0.1	97.9
##	980	2016-07-19	18:06:22	1	0.1	98.0
##	981	2016-07-20	01:56:33	1	0.1	98.1

```
## 982
       2016-07-20 09:27:24
                                             0.1
                                                            98.2
                                    1
       2016-07-20 13:21:37
                                                            98.3
## 983
                                    1
                                             0.1
## 984
       2016-07-20 21:53:42
                                             0.1
                                                            98.4
                                    1
## 985
       2016-07-20 23:08:28
                                    1
                                             0.1
                                                            98.5
## 986
       2016-07-21 10:01:50
                                    1
                                             0.1
                                                            98.6
## 987
       2016-07-21 10:54:35
                                    1
                                             0.1
                                                            98.7
## 988
       2016-07-21 16:02:40
                                    1
                                             0.1
                                                            98.8
       2016-07-21 20:30:06
                                                            98.9
## 989
                                    1
                                             0.1
## 990
       2016-07-21 21:16:35
                                    1
                                             0.1
                                                            99.0
       2016-07-21 23:14:35
## 991
                                    1
                                             0.1
                                                            99.1
## 992
       2016-07-22 07:44:43
                                    1
                                             0.1
                                                            99.2
## 993
       2016-07-22 11:05:10
                                             0.1
                                                            99.3
                                    1
## 994
       2016-07-23 04:04:42
                                    1
                                             0.1
                                                            99.4
                                                            99.5
## 995
       2016-07-23 04:37:05
                                    1
                                             0.1
## 996
       2016-07-23 05:21:39
                                    1
                                             0.1
                                                            99.6
       2016-07-23 06:18:51
                                                            99.7
## 997
                                    1
                                             0.1
## 998
       2016-07-23 11:46:28
                                    1
                                             0.1
                                                            99.8
## 999
       2016-07-23 14:47:23
                                                            99.9
                                    1
                                             0.1
## 1000 2016-07-24 00:22:16
                                             0.1
                                                           100.0
                                    1
```

### 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
##		Barbados	5	0.5
##		Belgium	5	0.5
##	68	Belize	5	0.5
##	69	Bouvet Island (Bouvetoya)	5	0.5
##		Brazil	5	0.5
##		Brunei Darussalam	5	0.5
##		Cameroon	5	0.5
##		Canada	5	0.5
##		Cayman Islands	5	0.5
##	75	Cuba	5	0.5
##		Dominica	5	0.5
##	77	Ecuador	5	0.5
##	78	Egypt	5	0.5
##		Finland	5	0.5
##		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
##	100	Saint Martin	4	0.4

##	136	Saudi Arabia	4	0.4
	137	Sri Lanka	4	0.4
			_	0.4
	138	Sweden	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		3	0.3
		Heard Island and McDonald Islands		
	161 162	Holy See (Vatican City State)	3	0.3
		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
##	109	Vietnam	3	0.3

```
## 190
                                                                                   0.3
                                                          Yemen
                                                                         3
## 191
                                                        Andorra
                                                                         2
                                                                                   0.2
## 192
                                                     Argentina
                                                                         2
                                                                                   0.2
## 193
                                                          Benin
                                                                         2
                                                                                   0.2
                                                                         2
## 194
                                                        Bhutan
                                                                                   0.2
## 195
                                     Central African Republic
                                                                         2
                                                                                   0.2
## 196
                                                      Colombia
                                                                         2
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                                                                         2
                                                                                   0.2
## 197
                                                        Comoros
## 198
                                                      Djibouti
                                                                         2
                                                                                   0.2
## 199
                                                        Gambia
                                                                         2
                                                                                   0.2
                                                                         2
## 200
                                                    Guadeloupe
                                                                                   0.2
## 201
                                                 Guinea-Bissau
                                                                         2
                                                                                   0.2
## 202
                                                          Haiti
                                                                         2
                                                                                   0.2
                                                                         2
## 203
                                                          India
                                                                                   0.2
## 204
                                                        Kuwait
                                                                         2
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## 205
                                                                         2
                                                     Macedonia
                                                                                   0.2
## 206
                                                    Mauritania
                                                                         2
                                                                                   0.2
                                                                         2
## 207
                                                    Montenegro
                                                                                   0.2
## 208
                                                                         2
                                                       Namibia
                                                                                   0.2
                                                                         2
## 209
                                                                                   0.2
                                                 New Caledonia
## 210
                                                        Norway
                                                                         2
                                                                                   0.2
## 211
                                                        Panama
                                                                         2
                                                                                   0.2
## 212
                                             Pitcairn Islands
                                                                         2
                                                                                   0.2
## 213
                                                        Reunion
                                                                         2
                                                                                   0.2
## 214
                                                                         2
                                             Saint Barthelemy
                                                                                   0.2
## 215
                                                   Saint Lucia
                                                                         2
                                                                                   0.2
## 216
                                        Sao Tome and Principe
                                                                         2
                                                                                   0.2
## 217
                                                  Sierra Leone
                                                                         2
                                                                                   0.2
                                                                         2
## 218
                                                                                   0.2
                                  Slovakia (Slovak Republic)
## 219
                                                                         2
                                                                                   0.2
               South Georgia and the South Sandwich Islands
## 220
                                                                         2
                                                          Sudan
                                                                                   0.2
## 221
                                                      Suriname
                                                                         2
                                                                                   0.2
## 222
                                                                         2
                                                                                   0.2
                                                     Swaziland
## 223
                                                                         2
                                                    Uzbekistan
                                                                                   0.2
## 224
                                                                         1
                                                          Aruba
                                                                                   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
                                                                                   0.1
                                                                         1
## 234
                                                    Mozambique
                                                                         1
                                                                                   0.1
## 235
                                                                                   0.1
                                                        Romania
                                                                         1
## 236
                                        Saint Kitts and Nevis
                                                                                   0.1
                                                                         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		0.5
			1.2
##	14 15		1.2
##			
##	16		2.6
##	17		3.3
##	18		4.0
##	19		4.7
##	20		5.4
##	21	10	6.1
##	22		6.8
##	23	1	7.5
##	24	18	8.2
##	25	13	8.8
##	26	19	9.4
##	27	20	0.0
##	28	20	0.6
##	29	2	1.2
##	30		1.8
##	31		2.4
##	32		3.0
##	33		3.6
##	34		4.2
##	35		4.8
##	36		5.4
##	37		6.0
##			6.6
	38		7.2
##	39		
##	40		7.8
##	41		8.4
##	42		9.0
##	43		9.6
##	44		0.2
##	45		0.8
##	46		1.4
##	47		2.0
##	48		2.6
##	49	33	3.2
##	50	33	3.8
##	51	3	4.4
##	52	3	5.0
##	53	3	5.6
##	54	30	6.2
##	55	30	6.8
##	56	3'	7.4
##	57	3:	8.0
##	58	38	8.6
##	59		9.2

##	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	8	35.4
##	169	8	35.7
##	170	8	36.0
##	171	8	36.3
##	172		36.6
##	173		36.9
##	174		37.2
##	175		37.5
##	176		37.8
##	177		38.1
##	178		38.4
##	179		38.7
##	180		39.0
##	181		39.3
##	182		39.6
##	183		39.9
##	184		90.2
##	185		90.5
##	186		8.00
##	187		91.1
##	188	9	91.4
##	189	9	91.7
##	190	9	92.0
##	191	9	92.2
##	192	S	92.4
##	193	9	92.6
##	194	S	92.8
##	195	9	93.0
##	196	9	3.2
##	197	9	3.4
##	198	9	3.6
##	199	9	3.8
##	200	9	94.0
##	201	9	94.2
##	202	S	94.4
##	203	S	94.6
##	204	S	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
##	214		97.0
##	216		97.2
##	217		97.4
##	217		97.4
##	218		97.8
			97.8
##	220		98.0
##	221	٤	10.2

```
## 222
                  98.4
## 223
                  98.6
## 224
                  98.7
## 225
                  98.8
## 226
                  98.9
## 227
                  99.0
                  99.1
## 228
## 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	${\tt frequency}$	${\tt percentage}$	<pre>cumulative_perc</pre>
##	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	${ t Shelbyport}$	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
##		Bowenview	1	0.1	9.7
##		Boyerberg	1	0.1	9.8
##		Bradleyborough	1	0.1	9.9
##		Bradleyburgh	1	0.1	10.0
##		Bradleyside	1	0.1	10.1
##		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	${\tt Brandymouth}$	1	0.1	10.7
##	77	Brendaburgh	1	0.1	10.8
##		Brendachester	1	0.1	10.9
##		Brianabury	1	0.1	11.0
##		Brianfurt	1	0.1	11.1
##		Brianland	1	0.1	11.2
##	82	Brittanyborough	1	0.1	11.3

##		Brownbury	1	0.1	11.4
##		Brownport	1	0.1	11.5
##		Brownton	1	0.1	11.6
##		Browntown	1	0.1	11.7
##		Brownview	1	0.1	11.8
##		Bruceburgh	1	0.1	11.9
##		Burgessside	1	0.1	12.0
##		Butlerfort	1	0.1	12.1
##		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	${\tt Chapmanmouth}$	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
			-	- · -	· <b>_</b>

##	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
			1	0.1	22.9
##	198	East Rachelview	1		
##	199	East Ronald	_	0.1	23.0 23.1
	200	East Samanthashire	1	0.1	
##	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
			1		
	239	Frankport		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	Comporbone	1	0 1	27.6
	245	Garnerberg	1	0.1	
	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	${\tt Hammondport}$	1	0.1	29.4
##	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		1	0.1	30.3
		Hartmanchester			
	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
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##	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
##	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	${ t John port}$	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	${\tt Jordanmouth}$	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	${\tt Juanport}$	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
	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
##	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
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	461	Mataberg	1	0.1	49.2
	462	Matthewtown	1	0.1	
##	463	Mauricefurt	1	0.1	
##	464	Mauriceshire	1	0.1	
##	465	${ t Mcdonaldfort }$	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
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##	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 Karenberg New Kayla	1	0.1	55.4
##	524	New Keithburgh	1	0.1	55.5
##	525	New Lindaberg	1	0.1	55.6
##	526	•	1	0.1	55.7
##	527	New Lucasburgh			
		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
			1		
	558	New Williammouth		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
					61.5
	584	North Garyhaven	1	0.1	
	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
			1	0.1	
	618	North Stephanieberg			64.9
	619	North Tara	1	0.1	65.0 65.1
	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
##	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	${\tt Port\ Christopherborough}$	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
					72.0
	689	Port Karenfurt	1	0.1	
	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
##	703		=		73.4
		Port Raymondfort	1	0.1	
##	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		1	0.1	
		Ramirezton			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
		g			

##	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	Sananthaland	1	0.1	78.8
##	758	Samuelborough	1	0.1	78.9
	759	Samuelborough	1	0.1	79.0
	760	Sanchezrand	1	0.1	79.0
	761	Sandersland	1	0.1	79.1
	762		1		
		Sanderstown	1	0.1	79.3
	763	Sandraland		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 Jackleberg South Jade	1	0.1	83.1
					83.2
	801	South Jaimeview	1	0.1	
	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
		v			

##	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 Jessicanaven 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
"	- 10	"323 "Gliay Lalia	_	V.1	01.1

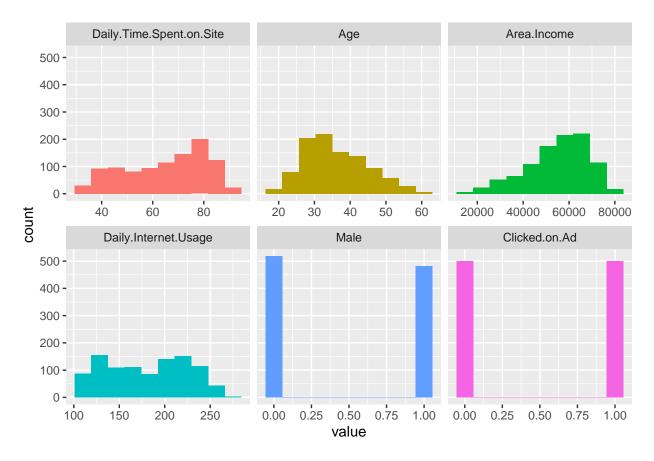
```
## 947
                                                0.1
                                                                97.8
                  West William
                                                                97.9
## 948
           West Zacharyborough
                                       1
                                                0.1
## 949
                     Westshire
                                                0.1
                                                                98.0
                                       1
## 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
                                                               98.5
## 954
                   Williamport
                                                0.1
                                       1
## 955
               Williamsborough
                                       1
                                                0.1
                                                               98.6
## 956
                  Williamsfort
                                                0.1
                                                               98.7
                                       1
## 957
                 Williamsmouth
                                       1
                                                0.1
                                                                98.8
## 958
                  Williamsside
                                                0.1
                                                                98.9
                                       1
## 959
                                                                99.0
                   Williamstad
                                       1
                                                0.1
## 960
                   Wilsonburgh
                                                0.1
                                                                99.1
                                       1
## 961
                   Wintersfort
                                                0.1
                                                                99.2
                                       1
## 962
                      Wongland
                                       1
                                                0.1
                                                                99.3
## 963
                    Wrightview
                                       1
                                                0.1
                                                                99.4
## 964
                                                                99.5
                      Yangside
                                       1
                                                0.1
## 965
                   Youngburgh
                                       1
                                                0.1
                                                               99.6
## 966
                                                0.1
                                                               99.7
                    Youngfort
                                       1
## 967
                         Yuton
                                       1
                                                0.1
                                                               99.8
## 968
                   Zacharystad
                                       1
                                                0.1
                                                               99.9
## 969
                                                0.1
                                                               100.0
                    Zacharyton
                                       1
```

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: '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)
```

```
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")
```

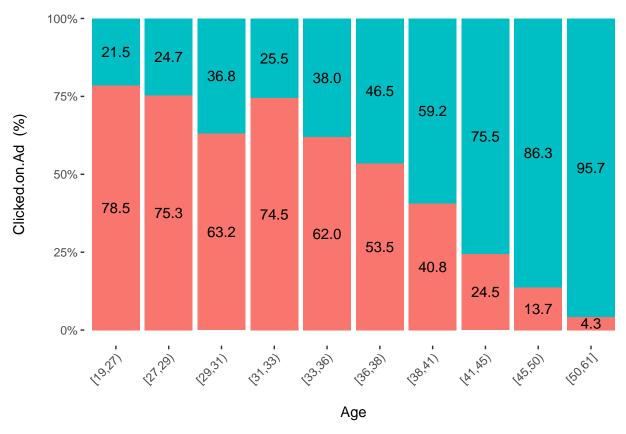
```
Variable Clicked.on.Ad
##
## 1
                Clicked.on.Ad
                                         1.00
## 2
                                         0.49
                           Age
## 3
                                        -0.48
                  Area.Income
## 4 Daily.Time.Spent.on.Site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

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

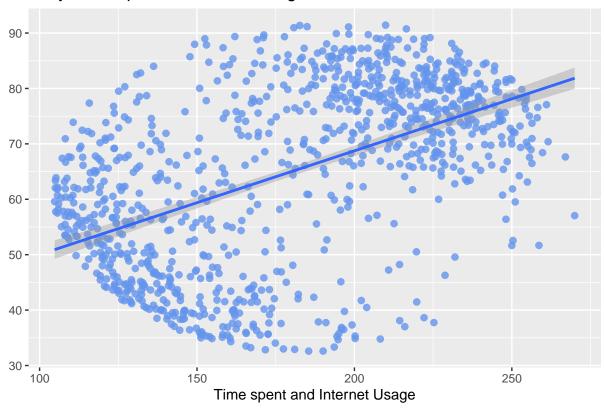


The likely hood of clicking on an ad increases if the users are 41-61 year old males.

```
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'

# Daily Time Spent vs. Internet Usage



Finding the covariance between the two

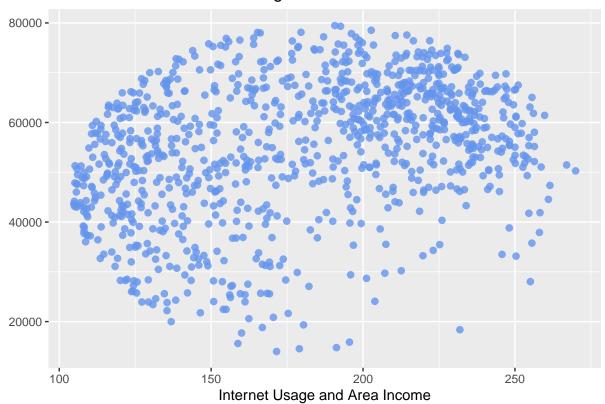
```
cor(data$Daily.Time.Spent.on.Site, data$Daily.Internet.Usage, method="pearson") # apply the cov
```

#### ## [1] 0.5186585

The two variables are moderately correlated

```
alpha=.8) +
# geom_smooth(method = "lm") +
labs(x = "Internet Usage and Area Income",
    y = "",
    title = "Area Income vs. Internet Usage")
```

# Area Income vs. Internet Usage

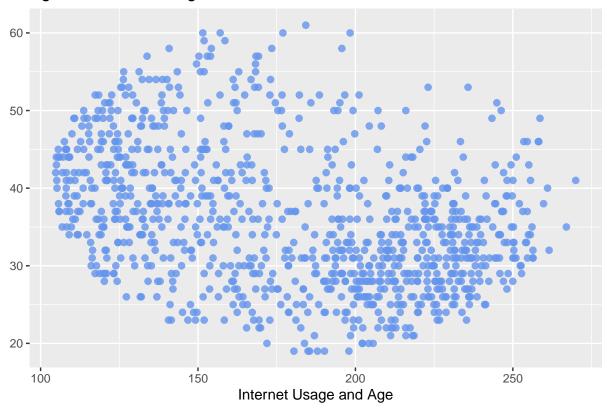


cor(data\$Daily.Internet.Usage, data\$Area.Income, method="pearson")

### ## [1] 0.3374955

The variables are moderately correlated

# Age vs. Internet Usage



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

## [1] -0.3672086

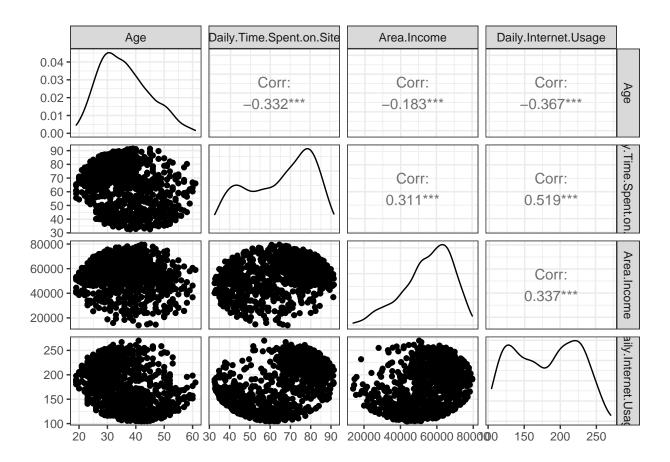
###Multivariate Analysis

```
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()
```



### 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.

### Recommendations

It seems that most users are actually not male. The entrepreneur could target the other users to tap into ad clicks.

We would also like to exhaustively explore the relationship between variables to find definitive relationship.