Unsupervised Learning:Cryptography IP, R Basics ,

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## R Markdown

####Intoduction An analysis ofthe variables that affect the ability of an Individual to click ads, Elvis Njoroge , Rbasics.

####Defining the Question’ Technology has revolutionized numerous fields including advertising. Digital marketing has explored numerous pockets, taking advantage of media tools such as blogs and online news bulletins. Cryptography puts a publisher in control of their media content allowing them to explore its economic benefits. However, content published may have different target audience prompting a rigorous research. A blogger, interested in expanding her revenue streams employed the services of a Data Scientist t investigate the preference of her audience when clicking ads.

#####Defining the context The entrepreneur wants to expand her target audience by narrowing down content that encourages her audience to click on ads.

####Metrcs of Succeess An analysis conducted will provide some insight on the relationship between variables offering recommendations.

####Data Relevance

The data being used has been collected and compiled by a trusted source.(<http://bit.ly/IPAdvertisingData>)

####Loading the Dataset

#importing the dataset

#importing the dataset  
  
vert<- read.csv("http://bit.ly/IPAdvertisingData")  
  
#preview of the advert dataset, the first 6 rows  
  
head(vert)

## Daily.Time.Spent.on.Site Age Area.Income Daily.Internet.Usage  
## 1 68.95 35 61833.90 256.09  
## 2 80.23 31 68441.85 193.77  
## 3 69.47 26 59785.94 236.50  
## 4 74.15 29 54806.18 245.89  
## 5 68.37 35 73889.99 225.58  
## 6 59.99 23 59761.56 226.74  
## Ad.Topic.Line City Male Country  
## 1 Cloned 5thgeneration orchestration Wrightburgh 0 Tunisia  
## 2 Monitored national standardization West Jodi 1 Nauru  
## 3 Organic bottom-line service-desk Davidton 0 San Marino  
## 4 Triple-buffered reciprocal time-frame West Terrifurt 1 Italy  
## 5 Robust logistical utilization South Manuel 0 Iceland  
## 6 Sharable client-driven software Jamieberg 1 Norway  
## Timestamp Clicked.on.Ad  
## 1 2016-03-27 00:53:11 0  
## 2 2016-04-04 01:39:02 0  
## 3 2016-03-13 20:35:42 0  
## 4 2016-01-10 02:31:19 0  
## 5 2016-06-03 03:36:18 0  
## 6 2016-05-19 14:30:17 0

## Including Plots

You can also embed plots, for example:

##Importing the libraries needed  
library(tidyverse)

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

## v ggplot2 3.3.5 v purrr 0.3.4  
## v tibble 3.1.6 v dplyr 1.0.8  
## v tidyr 1.2.0 v stringr 1.4.0  
## v readr 2.1.2 v forcats 0.5.1

## -- Conflicts ------------------------------------------ tidyverse\_conflicts() --  
## x dplyr::filter() masks stats::filter()  
## x dplyr::lag() masks stats::lag()

library(data.table)

##   
## Attaching package: 'data.table'

## The following objects are masked from 'package:dplyr':  
##   
## between, first, last

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

library(ggplot2)  
library(lattice)  
library(caret)

##   
## Attaching package: 'caret'

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

library(rpart)  
library(dplyr)  
library(epiDisplay)

## Loading required package: foreign

## Loading required package: survival

##   
## Attaching package: 'survival'

## The following object is masked from 'package:caret':  
##   
## cluster

## Loading required package: MASS

##   
## Attaching package: 'MASS'

## The following object is masked from 'package:dplyr':  
##   
## select

## Loading required package: nnet

##   
## Attaching package: 'epiDisplay'

## The following object is masked from 'package:lattice':  
##   
## dotplot

## The following object is masked from 'package:ggplot2':  
##   
## alpha

#Checking the number of rows and columns  
dim(vert)

## [1] 1000 10

The dataset contains 1000 rows and 10 columns

#Checking the names of the columns in the dataset  
vert$name

## NULL

#Checking the column datatypes  
sapply(vert, class)

## Daily.Time.Spent.on.Site Age Area.Income   
## "numeric" "integer" "numeric"   
## Daily.Internet.Usage Ad.Topic.Line City   
## "numeric" "character" "character"   
## Male Country Timestamp   
## "integer" "character" "character"   
## Clicked.on.Ad   
## "integer"

#Summary statistics   
summary(vert)

## Daily.Time.Spent.on.Site Age Area.Income Daily.Internet.Usage  
## Min. :32.60 Min. :19.00 Min. :13996 Min. :104.8   
## 1st Qu.:51.36 1st Qu.:29.00 1st Qu.:47032 1st Qu.:138.8   
## Median :68.22 Median :35.00 Median :57012 Median :183.1   
## Mean :65.00 Mean :36.01 Mean :55000 Mean :180.0   
## 3rd Qu.:78.55 3rd Qu.:42.00 3rd Qu.:65471 3rd Qu.:218.8   
## Max. :91.43 Max. :61.00 Max. :79485 Max. :270.0   
## Ad.Topic.Line City Male Country   
## Length:1000 Length:1000 Min. :0.000 Length:1000   
## Class :character Class :character 1st Qu.:0.000 Class :character   
## Mode :character Mode :character Median :0.000 Mode :character   
## Mean :0.481   
## 3rd Qu.:1.000   
## Max. :1.000   
## Timestamp Clicked.on.Ad  
## Length:1000 Min. :0.0   
## Class :character 1st Qu.:0.0   
## Mode :character Median :0.5   
## Mean :0.5   
## 3rd Qu.:1.0   
## Max. :1.0

#Information about the dataset  
glimpse(vert)

## Rows: 1,000  
## Columns: 10  
## $ Daily.Time.Spent.on.Site <dbl> 68.95, 80.23, 69.47, 74.15, 68.37, 59.99, 88.~  
## $ Age <int> 35, 31, 26, 29, 35, 23, 33, 48, 30, 20, 49, 3~  
## $ Area.Income <dbl> 61833.90, 68441.85, 59785.94, 54806.18, 73889~  
## $ Daily.Internet.Usage <dbl> 256.09, 193.77, 236.50, 245.89, 225.58, 226.7~  
## $ Ad.Topic.Line <chr> "Cloned 5thgeneration orchestration", "Monito~  
## $ City <chr> "Wrightburgh", "West Jodi", "Davidton", "West~  
## $ Male <int> 0, 1, 0, 1, 0, 1, 0, 1, 1, 1, 0, 1, 1, 0, 0, ~  
## $ Country <chr> "Tunisia", "Nauru", "San Marino", "Italy", "I~  
## $ Timestamp <chr> "2016-03-27 00:53:11", "2016-04-04 01:39:02",~  
## $ Clicked.on.Ad <int> 0, 0, 0, 0, 0, 0, 0, 1, 0, 0, 1, 0, 1, 0, 1, ~

# Checking the column names  
names(vert)

## [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"

DATA CLEANING

#Checking for missing values in the dataset  
is.na(vert)

## Daily.Time.Spent.on.Site Age Area.Income Daily.Internet.Usage  
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The dataset has no missing values

#Checking for the total number of missing values in the columns as confirmation  
colSums(is.na(vert))

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

This confirms that the dataset does not have missing values

#Checking for duplicates in the dataset  
duplicated\_rows <- vert[duplicated(vert),]  
duplicated\_rows

## [1] Daily.Time.Spent.on.Site Age Area.Income   
## [4] Daily.Internet.Usage Ad.Topic.Line City   
## [7] Male Country Timestamp   
## [10] Clicked.on.Ad   
## <0 rows> (or 0-length row.names)

The dataset has no duplicates

##TIDYING THE DATASET

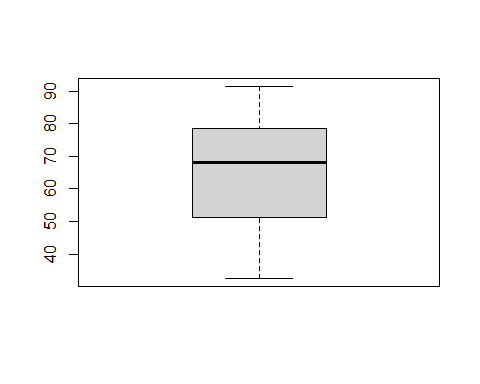
#Checking for anomalies in the dataset  
anom <- lapply(vert,unique)  
anom

## $Daily.Time.Spent.on.Site  
## [1] 68.95 80.23 69.47 74.15 68.37 59.99 88.91 66.00 74.53 69.88 47.64 83.07  
## [13] 69.57 79.52 42.95 63.45 55.39 82.03 54.70 74.58 77.22 84.59 41.49 87.29  
## [25] 41.39 78.74 48.53 51.95 70.20 76.02 67.64 86.41 59.05 55.60 57.64 84.37  
## [37] 62.26 65.82 50.43 38.93 84.98 64.24 82.52 81.38 80.47 37.68 69.62 85.40  
## [49] 44.33 48.01 73.18 79.94 33.33 50.33 62.31 80.60 65.19 44.98 77.63 41.82  
## [61] 85.61 85.84 72.08 86.06 45.96 62.42 63.89 35.33 75.74 78.53 46.13 69.01  
## [73] 55.35 33.21 38.46 64.10 49.81 82.73 56.14 55.13 78.11 73.46 56.64 68.94  
## [85] 70.79 57.76 77.51 52.70 57.70 56.89 69.90 55.79 70.03 50.08 43.67 72.84  
## [97] 45.72 39.94 35.61 79.71 63.60 89.91 68.18 66.49 80.49 72.23 42.39 47.53  
## [109] 74.02 66.63 63.24 71.00 69.00 76.99 72.60 61.88 84.45 88.97 86.19 49.58  
## [121] 77.65 37.75 62.33 79.57 80.31 89.05 70.41 67.36 46.98 41.67 51.24 75.70  
## [133] 43.49 49.89 38.37 38.52 71.89 75.80 83.86 37.51 83.67 69.08 37.47 56.04  
## [145] 70.92 49.78 68.61 58.18 78.54 37.00 65.40 87.98 44.64 41.73 80.46 75.55  
## [157] 76.32 82.68 72.01 75.83 41.28 34.66 66.18 59.59 86.69 43.77 71.84 74.41  
## [169] 63.36 71.74 60.72 72.04 44.57 85.86 39.85 84.53 62.95 67.58 85.56 46.88  
## [181] 46.31 77.95 84.73 39.86 60.23 60.70 77.20 71.86 44.78 78.57 73.41 77.05  
## [193] 66.40 69.35 35.65 70.04 69.78 58.22 76.90 84.08 59.51 40.15 76.81 41.89  
## [205] 76.87 67.28 81.98 66.01 61.57 53.30 34.87 43.60 77.88 49.95 60.94 89.15  
## [217] 78.70 57.35 34.86 70.68 76.06 66.67 46.77 78.32 37.32 40.42 76.77 65.65  
## [229] 74.32 73.27 80.03 53.68 85.03 70.44 81.22 39.96 57.05 42.44 62.20 76.70  
## [241] 61.22 84.54 46.08 56.70 81.03 80.91 40.06 83.47 73.84 74.65 60.25 59.21  
## [253] 43.02 84.04 70.66 70.58 72.44 40.17 79.15 44.49 73.04 76.28 68.88 73.10  
## [265] 47.66 87.30 89.34 81.37 81.67 46.37 54.88 40.67 71.76 47.51 75.15 56.01  
## [277] 82.87 45.05 60.53 50.52 84.71 55.20 81.61 71.55 82.40 73.95 72.07 80.39  
## [289] 65.80 69.97 52.62 39.25 77.56 33.52 79.81 84.79 82.70 84.88 54.92 76.56  
## [301] 69.74 72.19 84.29 73.89 75.84 73.38 80.72 62.06 51.50 90.97 86.78 84.33  
## [313] 36.87 34.78 76.84 67.05 41.47 80.71 80.09 56.30 79.36 86.38 38.94 87.26  
## [325] 75.32 74.38 65.90 36.31 88.12 83.97 61.09 65.77 81.58 37.87 76.20 60.91  
## [337] 74.49 73.71 78.19 79.54 74.87 87.09 37.45 49.84 51.38 83.40 38.91 62.14  
## [349] 79.72 73.30 69.11 71.90 72.45 77.07 74.62 82.07 58.60 36.08 79.44 73.19  
## [361] 77.60 89.00 69.20 67.56 81.11 80.22 43.63 77.66 74.63 49.67 80.59 83.49  
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## [385] 84.95 39.34 87.23 57.24 56.34 48.73 51.68 35.34 48.09 78.68 68.82 56.99  
## [397] 86.63 41.18 71.03 72.92 77.14 34.30 83.71 53.38 58.03 43.59 60.07 54.43  
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## [433] 82.12 66.17 43.01 80.05 64.88 79.82 48.03 32.99 74.88 36.49 88.04 45.70  
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## [469] 67.80 81.59 81.10 41.70 73.94 58.35 51.56 58.21 66.12 49.99 80.30 57.86  
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## [541] 56.16 78.60 78.29 43.83 77.31 66.77 57.20 73.15 43.97 77.25 74.84 83.53  
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## [637] 39.19 80.15 86.76 73.88 69.77 87.27 78.84 71.33 81.90 46.89 77.80 45.44  
## [649] 69.96 87.35 49.42 71.27 49.19 85.01 67.59 75.71 43.07 39.47 48.22 76.76  
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##   
## $Age  
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## [26] 43 45 50 47 27 42 38 54 21 60 55 44 58 56 51 19 59 61  
##   
## $Area.Income  
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## [9] 68862.00 55642.32 45632.51 62491.01 51636.92 51739.63 30976.00 52182.23  
## [17] 23936.86 71511.08 31087.54 23821.72 64802.33 60015.57 32635.70 61628.72  
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## [67] "Jensenborough" "Bradleyburgh"   
## [69] "New Sheila" "North Regina"   
## [71] "Davidmouth" "New Michaeltown"   
## [73] "East Tammie" "Wilcoxport"   
## [75] "East Michaelmouth" "East Tiffanyport"   
## [77] "Ramirezhaven" "Cranemouth"   
## [79] "Lake Edward" "Lake Conniefurt"   
## [81] "East Shawnchester" "West Joseph"   
## [83] "Lake Christopherfurt" "East Tylershire"   
## [85] "Sharpberg" "Lake Dustin"   
## [87] "North Kristine" "Grahamberg"   
## [89] "New Tina" "Nelsonfurt"   
## [91] "Christopherport" "Port Sarahhaven"   
## [93] "Bradleyborough" "Whiteport"   
## [95] "New Theresa" "Wongland"   
## [97] "Williammouth" "Williamsborough"   
## [99] "North Michael" "Benjaminchester"   
## [101] "Hernandezville" "Youngburgh"   
## [103] "Wallacechester" "Sanchezmouth"   
## [105] "Bradshawborough" "Amyhaven"   
## [107] "Marcushaven" "Erinton"   
## [109] "Hughesport" "New Lucasburgh"   
## [111] "Michelleside" "Andersonton"   
## [113] "New Rachel" "Port Susan"   
## [115] "West Angelabury" "Port Christopherborough"  
## [117] "Phillipsbury" "Millerside"   
## [119] "Lake Jessica" "Lopezmouth"   
## [121] "Johnsport" "South Ronald"   
## [123] "South Daniel" "Suzannetown"   
## [125] "Lisaberg" "Brianfurt"   
## [127] "Stewartbury" "North Wesleychester"   
## [129] "East Michelleberg" "Port Eric"   
## [131] "Timothyfurt" "Port Jeffrey"   
## [133] "Guzmanland" "East Michele"   
## [135] "East John" "Lesliebury"   
## [137] "Patriciahaven" "Ashleychester"   
## [139] "Lake Josetown" "Debraburgh"   
## [141] "New Debbiestad" "West Shaun"   
## [143] "Kimberlyhaven" "Port Lawrence"   
## [145] "West Ricardo" "Lake Jose"   
## [147] "Heatherberg" "South George"   
## [149] "Tinachester" "Port Jodi"   
## [151] "Jonathantown" "Sylviaview"   
## [153] "East Timothyport" "West Roytown"   
## [155] "Codyburgh" "Port Erikhaven"   
## [157] "Port Chasemouth" "Ramirezside"   
## [159] "East Michaeltown" "West Courtney"   
## [161] "West Michaelhaven" "Walshhaven"   
## [163] "East Rachelview" "Curtisport"   
## [165] "Frankbury" "Timothytown"   
## [167] "Samanthaland" "South Jennifer"   
## [169] "Kyleborough" "North Randy"   
## [171] "South Daniellefort" "Dianashire"   
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## [179] "East Stephen" "Turnerchester"   
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## [185] "Bernardton" "Port Mathew"   
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## [211] "Mcdonaldfort" "North Mercedes"   
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## [245] "East Barbara" "Port Erinberg"   
## [247] "Petersonfurt" "New Lindaberg"   
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## [251] "North Tracyport" "Brownport"   
## [253] "Port Crystal" "Masonhaven"   
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## [263] "West Alyssa" "Lake Craigview"   
## [265] "Lake David" "Bruceburgh"   
## [267] "South Lauratown" "Port Robin"   
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## [293] "South Troy" "Lake Patrick"   
## [295] "Millerland" "Port Jessicamouth"   
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## [381] "Lake Courtney" "Samuelborough"   
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## [415] "Mataberg" "West Melaniefurt"   
## [417] "Millerfort" "Alexanderview"   
## [419] "South Jade" "Lake Susan"   
## [421] "South Vincentchester" "Williamsmouth"   
## [423] "Taylorport" "Williamsport"   
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## [429] "Elizabethmouth" "Lake Jesus"   
## [431] "North Tylerland" "Munozberg"   
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## [435] "Andrewborough" "New Gabriel"   
## [437] "Port Patrickton" "West Julia"   
## [439] "New Keithburgh" "Richardsland"   
## [441] "North Aaronchester" "Lake Matthewland"   
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## [445] "Lovemouth" "Taylorhaven"   
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## [509] "Kingshire" "Rebeccamouth"   
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## [513] "North Andrew" "South Walter"   
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## [541] "Shaneland" "East Aaron"   
## [543] "Dustinborough" "East Michaelland"   
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## [547] "North Lauraland" "Port Christopher"   
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## [551] "Charlesbury" "South Renee"   
## [553] "South Jackieberg" "Loriville"   
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## [559] "East Jessefort" "Port Anthony"   
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## [607] "Christopherchester" "Westshire"   
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## [695] "Garciatown" "Chaseshire"   
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## [705] "Evansfurt" "South Adamhaven"   
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## [793] "Lake Lisa" "Valerieland"   
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## [959] "Sarafurt" "South Denise"   
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## [967] "New Darlene" "South Jessica"   
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## [9] "Grenada"   
## [10] "Ghana"   
## [11] "Qatar"   
## [12] "Burundi"   
## [13] "Egypt"   
## [14] "Bosnia and Herzegovina"   
## [15] "Barbados"   
## [16] "Spain"   
## [17] "Palestinian Territory"   
## [18] "Afghanistan"   
## [19] "British Indian Ocean Territory (Chagos Archipelago)"  
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## [943] "2016-03-06 09:33:46" "2016-02-24 04:11:37" "2016-02-17 20:22:49"  
## [946] "2016-02-02 04:57:50" "2016-01-27 16:06:05" "2016-05-24 09:50:41"  
## [949] "2016-02-08 22:45:26" "2016-02-12 01:55:38" "2016-01-11 08:18:12"  
## [952] "2016-03-03 03:51:27" "2016-05-30 20:08:51" "2016-04-22 22:01:21"  
## [955] "2016-05-25 10:39:28" "2016-02-04 03:10:17" "2016-02-21 20:09:12"  
## [958] "2016-04-28 01:24:34" "2016-05-18 19:33:51" "2016-02-17 11:15:31"  
## [961] "2016-06-19 23:04:45" "2016-02-20 09:54:06" "2016-01-22 12:58:14"  
## [964] "2016-02-19 13:26:24" "2016-01-03 07:13:53" "2016-01-03 04:39:47"  
## [967] "2016-04-13 13:04:47" "2016-01-01 03:35:35" "2016-03-27 08:32:37"  
## [970] "2016-07-10 16:25:56" "2016-06-25 04:21:33" "2016-01-27 14:41:10"  
## [973] "2016-05-16 18:51:59" "2016-02-27 20:20:25" "2016-02-28 23:54:44"  
## [976] "2016-06-13 06:11:33" "2016-05-05 11:07:13" "2016-07-07 12:17:33"  
## [979] "2016-05-24 17:07:08" "2016-03-30 14:36:55" "2016-05-27 05:54:03"  
## [982] "2016-01-03 16:30:51" "2016-06-25 18:17:53" "2016-02-24 10:36:43"  
## [985] "2016-03-03 03:13:48" "2016-04-21 19:56:24" "2016-04-06 17:26:37"  
## [988] "2016-03-23 12:53:23" "2016-02-17 07:00:38" "2016-06-26 07:01:47"  
## [991] "2016-04-20 13:36:42" "2016-07-21 16:02:40" "2016-03-06 11:36:06"  
## [994] "2016-02-11 23:45:01" "2016-04-04 03:57:48" "2016-02-11 21:49:00"  
## [997] "2016-04-22 02:07:01" "2016-02-01 17:24:57" "2016-03-24 02:35:54"  
## [1000] "2016-06-03 21:43:21"  
##   
## $Clicked.on.Ad  
## [1] 0 1

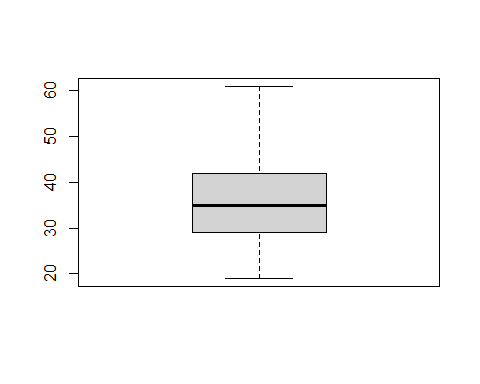
#Converting some columns into numerical datasset  
vert$Timestamp <- as.Date(vert$Timestamp)  
  
vert$"Clicked.on.Ad"<-as.factor(vert$"Clicked.on.Ad")  
vert$"Male" <- as.factor(vert$"Male")

##Checking For Outliers in the dataset

#Time spent on site  
boxplot(vert[,1])

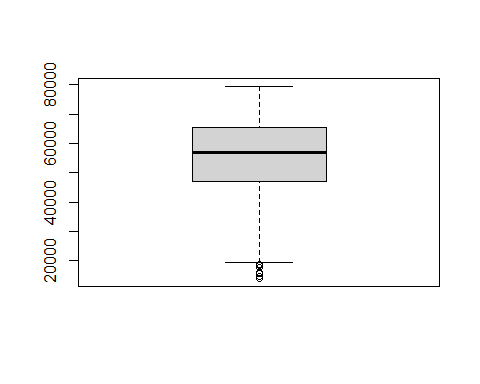
 The data contains outliers

#Age  
boxplot(vert[,2])

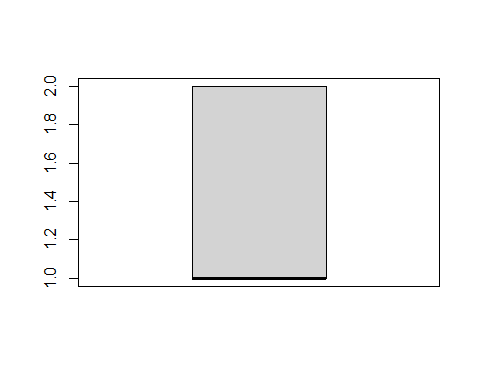


The column contains notable outliers suggesting the presence of extreme values in the dataset

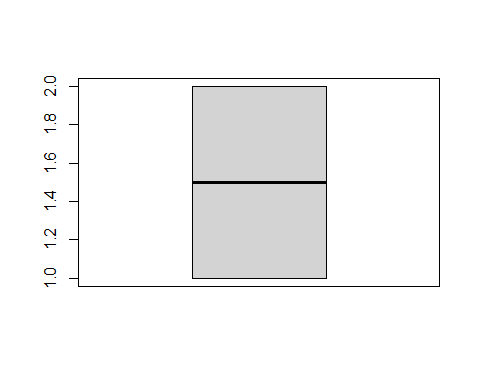
#Daily internet usage  
boxplot(vert[,3])

 The column has notable outliers signifying the presence of extreme values

#Male  
boxplot(vert[,7])



#Clicked on Ad  
boxplot(vert[,10])



The column cobntains notable outliers

####EXPLORATORY DATA ANALYSIS

#UNIVARIATE DATA ANALYSIS

#Summary statistics of the dataset  
   
summary(vert)

## Daily.Time.Spent.on.Site Age Area.Income Daily.Internet.Usage  
## Min. :32.60 Min. :19.00 Min. :13996 Min. :104.8   
## 1st Qu.:51.36 1st Qu.:29.00 1st Qu.:47032 1st Qu.:138.8   
## Median :68.22 Median :35.00 Median :57012 Median :183.1   
## Mean :65.00 Mean :36.01 Mean :55000 Mean :180.0   
## 3rd Qu.:78.55 3rd Qu.:42.00 3rd Qu.:65471 3rd Qu.:218.8   
## Max. :91.43 Max. :61.00 Max. :79485 Max. :270.0   
## Ad.Topic.Line City Male Country   
## Length:1000 Length:1000 0:519 Length:1000   
## Class :character Class :character 1:481 Class :character   
## Mode :character Mode :character Mode :character   
##   
##   
##   
## Timestamp Clicked.on.Ad  
## Min. :2016-01-01 0:500   
## 1st Qu.:2016-02-17 1:500   
## Median :2016-04-07   
## Mean :2016-04-09   
## 3rd Qu.:2016-05-31   
## Max. :2016-07-24

The mode, median, mean, maximum, minimum and range of the columns have been displayed above.

# Replacing spaces in the columns names with an underscoreto help calculate the frequency table  
names(vert) <- gsub(" ", "\_", names(vert))  
names(vert)

## [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"

The names have been converted to an easy to use format

#Frequency Table  
library("plyr")

## ------------------------------------------------------------------------------

## You have loaded plyr after dplyr - this is likely to cause problems.  
## If you need functions from both plyr and dplyr, please load plyr first, then dplyr:  
## library(plyr); library(dplyr)

## ------------------------------------------------------------------------------

##   
## Attaching package: 'plyr'

## The following objects are masked from 'package:dplyr':  
##   
## arrange, count, desc, failwith, id, mutate, rename, summarise,  
## summarize

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

#Daily time spent on site  
count(vert, 'Daily.Time.Spent.on.Site')

## Daily.Time.Spent.on.Site freq  
## 1 32.60 2  
## 2 32.84 1  
## 3 32.91 1  
## 4 32.99 1  
## 5 33.21 1  
## 6 33.33 1  
## 7 33.52 1  
## 8 34.04 1  
## 9 34.30 1  
## 10 34.66 1  
## 11 34.78 1  
## 12 34.86 1  
## 13 34.87 1  
## 14 34.96 1  
## 15 35.00 1  
## 16 35.11 1  
## 17 35.21 1  
## 18 35.25 1  
## 19 35.33 1  
## 20 35.34 1  
## 21 35.49 2  
## 22 35.55 1  
## 23 35.61 1  
## 24 35.65 1  
## 25 35.66 2  
## 26 35.76 1  
## 27 35.79 1  
## 28 35.98 2  
## 29 36.08 1  
## 30 36.31 1  
## 31 36.37 1  
## 32 36.44 1  
## 33 36.49 1  
## 34 36.56 1  
## 35 36.62 1  
## 36 36.73 1  
## 37 36.87 1  
## 38 36.91 1  
## 39 36.98 1  
## 40 37.00 1  
## 41 37.01 1  
## 42 37.05 1  
## 43 37.32 1  
## 44 37.45 1  
## 45 37.47 1  
## 46 37.51 1  
## 47 37.58 1  
## 48 37.65 1  
## 49 37.68 1  
## 50 37.74 1  
## 51 37.75 1  
## 52 37.87 1  
## 53 38.10 1  
## 54 38.35 2  
## 55 38.37 1  
## 56 38.46 1  
## 57 38.52 1  
## 58 38.63 1  
## 59 38.65 1  
## 60 38.91 1  
## 61 38.93 1  
## 62 38.94 1  
## 63 38.96 1  
## 64 39.19 1  
## 65 39.25 1  
## 66 39.30 1  
## 67 39.34 1  
## 68 39.36 1  
## 69 39.47 1  
## 70 39.50 1  
## 71 39.53 1  
## 72 39.56 1  
## 73 39.76 1  
## 74 39.85 1  
## 75 39.86 2  
## 76 39.87 1  
## 77 39.94 1  
## 78 39.96 2  
## 79 40.01 1  
## 80 40.04 1  
## 81 40.06 1  
## 82 40.15 1  
## 83 40.17 1  
## 84 40.18 1  
## 85 40.19 1  
## 86 40.34 1  
## 87 40.42 1  
## 88 40.47 1  
## 89 40.67 1  
## 90 40.88 1  
## 91 41.16 1  
## 92 41.18 1  
## 93 41.28 1  
## 94 41.35 1  
## 95 41.39 1  
## 96 41.46 1  
## 97 41.47 1  
## 98 41.49 2  
## 99 41.53 1  
## 100 41.67 1  
## 101 41.70 1  
## 102 41.73 2  
## 103 41.82 1  
## 104 41.84 1  
## 105 41.86 1  
## 106 41.88 1  
## 107 41.89 1  
## 108 42.04 1  
## 109 42.05 1  
## 110 42.06 1  
## 111 42.32 1  
## 112 42.39 1  
## 113 42.44 1  
## 114 42.51 1  
## 115 42.60 1  
## 116 42.83 1  
## 117 42.84 1  
## 118 42.94 1  
## 119 42.95 1  
## 120 43.01 1  
## 121 43.02 1  
## 122 43.07 1  
## 123 43.16 2  
## 124 43.41 1  
## 125 43.49 2  
## 126 43.57 1  
## 127 43.59 1  
## 128 43.60 1  
## 129 43.63 2  
## 130 43.65 1  
## 131 43.67 2  
## 132 43.70 1  
## 133 43.77 1  
## 134 43.83 1  
## 135 43.84 1  
## 136 43.88 1  
## 137 43.97 1  
## 138 44.11 1  
## 139 44.13 1  
## 140 44.15 1  
## 141 44.16 1  
## 142 44.33 2  
## 143 44.40 1  
## 144 44.46 1  
## 145 44.49 1  
## 146 44.57 1  
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## 148 44.72 1  
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## 150 44.78 1  
## 151 44.96 1  
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## 154 45.05 1  
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## 158 45.44 1  
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## 165 45.96 1  
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## 171 46.20 1  
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## 176 46.61 2  
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## 178 46.77 1  
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## 182 46.98 1  
## 183 47.00 1  
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## 186 47.51 1  
## 187 47.53 1  
## 188 47.64 1  
## 189 47.66 1  
## 190 47.74 1  
## 191 47.90 1  
## 192 48.01 1  
## 193 48.03 1  
## 194 48.09 1  
## 195 48.22 1  
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## 200 48.86 2  
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## 210 49.84 2  
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## 214 49.99 1  
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## 227 51.24 1  
## 228 51.30 1  
## 229 51.38 1  
## 230 51.50 1  
## 231 51.56 1  
## 232 51.58 1  
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## 650 77.47 1  
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## 3 Adaptive context-sensitive application 1  
## 4 Adaptive contextually-based methodology 1  
## 5 Adaptive demand-driven knowledgebase 1  
## 6 Adaptive uniform capability 1  
## 7 Advanced 24/7 productivity 1  
## 8 Advanced 5thgeneration capability 1  
## 9 Advanced didactic conglomeration 1  
## 10 Advanced disintermediate data-warehouse 1  
## 11 Advanced exuding conglomeration 1  
## 12 Advanced full-range migration 1  
## 13 Advanced heuristic firmware 1  
## 14 Advanced local task-force 1  
## 15 Advanced modular Local Area Network 1  
## 16 Advanced systemic productivity 1  
## 17 Advanced web-enabled standardization 1  
## 18 Ameliorated actuating workforce 1  
## 19 Ameliorated bandwidth-monitored contingency 1  
## 20 Ameliorated client-driven forecast 1  
## 21 Ameliorated coherent open architecture 1  
## 22 Ameliorated contextually-based collaboration 1  
## 23 Ameliorated discrete extranet 1  
## 24 Ameliorated exuding encryption 1  
## 25 Ameliorated exuding solution 1  
## 26 Ameliorated intermediate Graphical User Interface 1  
## 27 Ameliorated leadingedge help-desk 1  
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## 279 Face-to-face executive encryption 1  
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## 281 Face-to-face methodical intranet 1  
## 282 Face-to-face mission-critical definition 1  
## 283 Face-to-face modular budgetary management 1  
## 284 Face-to-face multimedia success 1  
## 285 Face-to-face reciprocal methodology 1  
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## 289 Focused coherent success 1  
## 290 Focused fresh-thinking Graphic Interface 1  
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## 292 Focused high-level frame 1  
## 293 Focused incremental Graphic Interface 1  
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## 307 Front-line fresh-thinking installation 1  
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## 320 Front-line zero-defect array 1  
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## 322 Fully-configurable asynchronous firmware 1  
## 323 Fully-configurable clear-thinking throughput 1  
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## 326 Fully-configurable eco-centric frame 1  
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## 330 Fully-configurable holistic throughput 1  
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## 917 Universal multi-state system engine 1  
## 918 Universal transitional Graphical User Interface 1  
## 919 Up-sized 6thgeneration moratorium 1  
## 920 Up-sized asymmetric firmware 1  
## 921 Up-sized bi-directional infrastructure 1  
## 922 Up-sized bifurcated capability 1  
## 923 Up-sized executive moderator 1  
## 924 Up-sized incremental encryption 1  
## 925 Up-sized intangible circuit 1  
## 926 Up-sized maximized model 1  
## 927 Up-sized next generation architecture 1  
## 928 Up-sized real-time methodology 1  
## 929 Up-sized secondary software 1  
## 930 Up-sized tertiary contingency 1  
## 931 Upgradable 4thgeneration portal 1  
## 932 Upgradable asymmetric emulation 1  
## 933 Upgradable asynchronous circuit 1  
## 934 Upgradable directional system engine 1  
## 935 Upgradable even-keeled challenge 1  
## 936 Upgradable even-keeled hardware 1  
## 937 Upgradable heuristic system engine 1  
## 938 Upgradable local migration 1  
## 939 Upgradable logistical flexibility 1  
## 940 Upgradable multi-tasking initiative 1  
## 941 Upgradable optimizing toolset 1  
## 942 Upgradable system-worthy array 1  
## 943 User-centric attitude-oriented adapter 1  
## 944 User-centric composite contingency 1  
## 945 User-centric discrete success 1  
## 946 User-centric intangible contingency 1  
## 947 User-centric intangible task-force 1  
## 948 User-centric intermediate knowledge user 1  
## 949 User-centric solution-oriented emulation 1  
## 950 User-friendly asymmetric info-mediaries 1  
## 951 User-friendly bandwidth-monitored attitude 1  
## 952 User-friendly client-server instruction set 1  
## 953 User-friendly content-based customer loyalty 1  
## 954 User-friendly grid-enabled analyzer 1  
## 955 User-friendly impactful time-frame 1  
## 956 User-friendly upward-trending intranet 1  
## 957 User-friendly well-modulated leverage 1  
## 958 Versatile 4thgeneration system engine 1  
## 959 Versatile 6thgeneration parallelism 1  
## 960 Versatile content-based protocol 1  
## 961 Versatile dedicated software 1  
## 962 Versatile homogeneous capacity 1  
## 963 Versatile local forecast 1  
## 964 Versatile mission-critical application 1  
## 965 Versatile next generation pricing structure 1  
## 966 Versatile optimizing projection 1  
## 967 Versatile reciprocal structure 1  
## 968 Versatile responsive knowledge user 1  
## 969 Versatile scalable encryption 1  
## 970 Versatile solution-oriented secured line 1  
## 971 Versatile transitional monitoring 1  
## 972 Virtual 5thgeneration emulation 1  
## 973 Virtual 5thgeneration neural-net 1  
## 974 Virtual bandwidth-monitored initiative 1  
## 975 Virtual bifurcated portal 1  
## 976 Virtual composite model 1  
## 977 Virtual context-sensitive support 1  
## 978 Virtual executive implementation 1  
## 979 Virtual homogeneous budgetary management 1  
## 980 Virtual impactful algorithm 1  
## 981 Virtual scalable secured line 1  
## 982 Vision-oriented asynchronous Internet solution 1  
## 983 Vision-oriented attitude-oriented Internet solution 1  
## 984 Vision-oriented bifurcated contingency 1  
## 985 Vision-oriented contextually-based extranet 1  
## 986 Vision-oriented human-resource synergy 1  
## 987 Vision-oriented methodical support 1  
## 988 Vision-oriented multi-tasking success 1  
## 989 Vision-oriented next generation solution 1  
## 990 Vision-oriented optimizing middleware 1  
## 991 Vision-oriented real-time framework 1  
## 992 Vision-oriented system-worthy forecast 1  
## 993 Vision-oriented uniform knowledgebase 1  
## 994 Visionary analyzing structure 1  
## 995 Visionary asymmetric encryption 1  
## 996 Visionary client-driven installation 1  
## 997 Visionary maximized process improvement 1  
## 998 Visionary mission-critical application 1  
## 999 Visionary multi-tasking alliance 1  
## 1000 Visionary reciprocal circuit 1

#Male  
count(vert, 'Male')

## Male freq  
## 1 0 519  
## 2 1 481

The males are less than other individuals

#Time stamp  
count(vert, 'Timestamp')

## Timestamp freq  
## 1 2016-01-01 7  
## 2 2016-01-02 4  
## 3 2016-01-03 8  
## 4 2016-01-04 6  
## 5 2016-01-05 11  
## 6 2016-01-06 2  
## 7 2016-01-07 5  
## 8 2016-01-08 7  
## 9 2016-01-09 6  
## 10 2016-01-10 3  
## 11 2016-01-11 5  
## 12 2016-01-12 3  
## 13 2016-01-13 3  
## 14 2016-01-14 6  
## 15 2016-01-15 4  
## 16 2016-01-16 5  
## 17 2016-01-17 6  
## 18 2016-01-18 2  
## 19 2016-01-19 1  
## 20 2016-01-20 3  
## 21 2016-01-21 5  
## 22 2016-01-22 3  
## 23 2016-01-23 7  
## 24 2016-01-24 2  
## 25 2016-01-25 2  
## 26 2016-01-26 3  
## 27 2016-01-27 7  
## 28 2016-01-28 5  
## 29 2016-01-29 5  
## 30 2016-01-30 6  
## 31 2016-01-31 5  
## 32 2016-02-01 6  
## 33 2016-02-02 4  
## 34 2016-02-03 9  
## 35 2016-02-04 4  
## 36 2016-02-05 3  
## 37 2016-02-06 2  
## 38 2016-02-07 3  
## 39 2016-02-08 5  
## 40 2016-02-09 5  
## 41 2016-02-10 7  
## 42 2016-02-11 9  
## 43 2016-02-12 7  
## 44 2016-02-13 4  
## 45 2016-02-14 12  
## 46 2016-02-15 9  
## 47 2016-02-16 5  
## 48 2016-02-17 9  
## 49 2016-02-18 3  
## 50 2016-02-19 3  
## 51 2016-02-20 4  
## 52 2016-02-21 6  
## 53 2016-02-22 1  
## 54 2016-02-23 2  
## 55 2016-02-24 7  
## 56 2016-02-25 1  
## 57 2016-02-26 11  
## 58 2016-02-27 6  
## 59 2016-02-28 8  
## 60 2016-02-29 5  
## 61 2016-03-01 3  
## 62 2016-03-02 6  
## 63 2016-03-03 5  
## 64 2016-03-04 5  
## 65 2016-03-05 3  
## 66 2016-03-06 4  
## 67 2016-03-07 4  
## 68 2016-03-08 5  
## 69 2016-03-09 7  
## 70 2016-03-10 6  
## 71 2016-03-11 7  
## 72 2016-03-12 4  
## 73 2016-03-13 2  
## 74 2016-03-14 5  
## 75 2016-03-15 9  
## 76 2016-03-16 5  
## 77 2016-03-17 5  
## 78 2016-03-18 6  
## 79 2016-03-19 5  
## 80 2016-03-20 4  
## 81 2016-03-21 4  
## 82 2016-03-22 3  
## 83 2016-03-23 7  
## 84 2016-03-24 9  
## 85 2016-03-25 5  
## 86 2016-03-26 4  
## 87 2016-03-27 8  
## 88 2016-03-28 5  
## 89 2016-03-30 7  
## 90 2016-03-31 4  
## 91 2016-04-01 5  
## 92 2016-04-03 5  
## 93 2016-04-04 12  
## 94 2016-04-05 3  
## 95 2016-04-06 7  
## 96 2016-04-07 8  
## 97 2016-04-08 3  
## 98 2016-04-09 3  
## 99 2016-04-10 7  
## 100 2016-04-12 4  
## 101 2016-04-13 3  
## 102 2016-04-14 2  
## 103 2016-04-15 6  
## 104 2016-04-16 8  
## 105 2016-04-17 6  
## 106 2016-04-18 7  
## 107 2016-04-19 3  
## 108 2016-04-20 5  
## 109 2016-04-21 6  
## 110 2016-04-22 8  
## 111 2016-04-23 5  
## 112 2016-04-24 4  
## 113 2016-04-25 6  
## 114 2016-04-26 3  
## 115 2016-04-27 3  
## 116 2016-04-28 6  
## 117 2016-04-29 6  
## 118 2016-04-30 3  
## 119 2016-05-01 5  
## 120 2016-05-02 4  
## 121 2016-05-03 6  
## 122 2016-05-04 4  
## 123 2016-05-05 4  
## 124 2016-05-06 1  
## 125 2016-05-07 4  
## 126 2016-05-08 8  
## 127 2016-05-09 5  
## 128 2016-05-10 5  
## 129 2016-05-11 2  
## 130 2016-05-12 4  
## 131 2016-05-13 4  
## 132 2016-05-14 2  
## 133 2016-05-15 6  
## 134 2016-05-16 3  
## 135 2016-05-17 3  
## 136 2016-05-18 4  
## 137 2016-05-19 6  
## 138 2016-05-20 5  
## 139 2016-05-21 1  
## 140 2016-05-22 4  
## 141 2016-05-23 5  
## 142 2016-05-24 7  
## 143 2016-05-25 5  
## 144 2016-05-26 8  
## 145 2016-05-27 8  
## 146 2016-05-28 3  
## 147 2016-05-29 3  
## 148 2016-05-30 9  
## 149 2016-05-31 9  
## 150 2016-06-01 5  
## 151 2016-06-02 3  
## 152 2016-06-03 8  
## 153 2016-06-04 3  
## 154 2016-06-05 5  
## 155 2016-06-06 2  
## 156 2016-06-07 3  
## 157 2016-06-08 3  
## 158 2016-06-09 4  
## 159 2016-06-10 6  
## 160 2016-06-11 4  
## 161 2016-06-12 6  
## 162 2016-06-13 6  
## 163 2016-06-14 4  
## 164 2016-06-15 3  
## 165 2016-06-16 5  
## 166 2016-06-17 7  
## 167 2016-06-18 8  
## 168 2016-06-19 7  
## 169 2016-06-20 7  
## 170 2016-06-21 4  
## 171 2016-06-22 3  
## 172 2016-06-23 3  
## 173 2016-06-24 3  
## 174 2016-06-25 4  
## 175 2016-06-26 7  
## 176 2016-06-27 3  
## 177 2016-06-28 3  
## 178 2016-06-29 10  
## 179 2016-06-30 3  
## 180 2016-07-01 2  
## 181 2016-07-02 4  
## 182 2016-07-03 5  
## 183 2016-07-04 2  
## 184 2016-07-05 6  
## 185 2016-07-06 7  
## 186 2016-07-07 5  
## 187 2016-07-08 4  
## 188 2016-07-09 4  
## 189 2016-07-10 3  
## 190 2016-07-11 5  
## 191 2016-07-12 1  
## 192 2016-07-13 8  
## 193 2016-07-14 2  
## 194 2016-07-15 4  
## 195 2016-07-16 4  
## 196 2016-07-17 6  
## 197 2016-07-18 5  
## 198 2016-07-19 4  
## 199 2016-07-20 5  
## 200 2016-07-21 6  
## 201 2016-07-22 2  
## 202 2016-07-23 6  
## 203 2016-07-24 1

#Age  
count(vert, 'Age')

## Age freq  
## 1 19 6  
## 2 20 6  
## 3 21 6  
## 4 22 13  
## 5 23 19  
## 6 24 21  
## 7 25 27  
## 8 26 37  
## 9 27 33  
## 10 28 48  
## 11 29 48  
## 12 30 39  
## 13 31 60  
## 14 32 38  
## 15 33 43  
## 16 34 39  
## 17 35 39  
## 18 36 50  
## 19 37 36  
## 20 38 37  
## 21 39 30  
## 22 40 36  
## 23 41 32  
## 24 42 26  
## 25 43 23  
## 26 44 21  
## 27 45 30  
## 28 46 18  
## 29 47 13  
## 30 48 16  
## 31 49 18  
## 32 50 20  
## 33 51 12  
## 34 52 15  
## 35 53 10  
## 36 54 9  
## 37 55 7  
## 38 56 2  
## 39 57 6  
## 40 58 4  
## 41 59 2  
## 42 60 4  
## 43 61 1

60 is the most common age

#City  
count(vert, 'City')

## City freq  
## 1 Adamsbury 1  
## 2 Adamside 1  
## 3 Adamsstad 1  
## 4 Alanview 1  
## 5 Alexanderfurt 1  
## 6 Alexanderview 1  
## 7 Alexandrafort 1  
## 8 Alexisland 1  
## 9 Aliciatown 1  
## 10 Alvaradoport 1  
## 11 Alvarezland 1  
## 12 Amandafort 1  
## 13 Amandahaven 1  
## 14 Amandaland 1  
## 15 Amyfurt 1  
## 16 Amyhaven 1  
## 17 Andersonchester 1  
## 18 Andersonfurt 1  
## 19 Andersonton 1  
## 20 Andrewborough 1  
## 21 Andrewmouth 1  
## 22 Angelhaven 1  
## 23 Anthonyfurt 1  
## 24 Ashleychester 1  
## 25 Ashleymouth 1  
## 26 Austinborough 1  
## 27 Austinland 1  
## 28 Bakerhaven 1  
## 29 Barbershire 1  
## 30 Beckton 1  
## 31 Benjaminchester 2  
## 32 Bernardton 1  
## 33 Bethburgh 1  
## 34 Birdshire 1  
## 35 Blairborough 1  
## 36 Blairville 1  
## 37 Blevinstown 1  
## 38 Bowenview 1  
## 39 Boyerberg 1  
## 40 Bradleyborough 1  
## 41 Bradleyburgh 1  
## 42 Bradleyside 1  
## 43 Bradshawborough 1  
## 44 Bradyfurt 1  
## 45 Brandiland 1  
## 46 Brandonbury 1  
## 47 Brandonstad 1  
## 48 Brandymouth 1  
## 49 Brendaburgh 1  
## 50 Brendachester 1  
## 51 Brianabury 1  
## 52 Brianfurt 1  
## 53 Brianland 1  
## 54 Brittanyborough 1  
## 55 Brownbury 1  
## 56 Brownport 1  
## 57 Brownton 1  
## 58 Browntown 1  
## 59 Brownview 1  
## 60 Bruceburgh 1  
## 61 Burgessside 1  
## 62 Butlerfort 1  
## 63 Calebberg 1  
## 64 Cameronberg 1  
## 65 Campbellstad 1  
## 66 Cannonbury 1  
## 67 Carsonshire 1  
## 68 Carterburgh 1  
## 69 Carterland 1  
## 70 Carterport 1  
## 71 Carterton 1  
## 72 Cassandratown 1  
## 73 Catherinefort 1  
## 74 Cervantesshire 1  
## 75 Chapmanland 1  
## 76 Chapmanmouth 1  
## 77 Charlenetown 1  
## 78 Charlesbury 1  
## 79 Charlesport 1  
## 80 Charlottefort 1  
## 81 Chaseshire 1  
## 82 Chrismouth 1  
## 83 Christinehaven 1  
## 84 Christinetown 1  
## 85 Christopherchester 1  
## 86 Christopherport 1  
## 87 Christopherville 1  
## 88 Clarkborough 1  
## 89 Claytonside 1  
## 90 Clineshire 1  
## 91 Codyburgh 1  
## 92 Coffeytown 1  
## 93 Colebury 1  
## 94 Colemanshire 1  
## 95 Collinsburgh 1  
## 96 Combsstad 1  
## 97 Contrerasshire 1  
## 98 Costaburgh 1  
## 99 Courtneyfort 1  
## 100 Coxhaven 1  
## 101 Cranemouth 1  
## 102 Crawfordfurt 1  
## 103 Cunninghamhaven 1  
## 104 Curtisport 1  
## 105 Curtisview 1  
## 106 Cynthiaside 1  
## 107 Daisymouth 1  
## 108 Danielview 1  
## 109 Davidmouth 1  
## 110 Davidside 1  
## 111 Davidstad 1  
## 112 Davidton 1  
## 113 Davidview 1  
## 114 Daviesborough 1  
## 115 Davieshaven 1  
## 116 Davilachester 1  
## 117 Davisfurt 1  
## 118 Dayton 1  
## 119 Deannaville 1  
## 120 Debraburgh 1  
## 121 Derrickhaven 1  
## 122 Destinyfurt 1  
## 123 Dianashire 1  
## 124 Dianaville 1  
## 125 Donaldshire 1  
## 126 Douglasview 1  
## 127 Duffystad 1  
## 128 Dustinborough 1  
## 129 Dustinchester 1  
## 130 Dustinmouth 1  
## 131 East Aaron 1  
## 132 East Anthony 1  
## 133 East Barbara 1  
## 134 East Benjaminville 1  
## 135 East Breannafurt 1  
## 136 East Brettton 1  
## 137 East Brianberg 1  
## 138 East Brittanyville 1  
## 139 East Carlos 1  
## 140 East Christopher 1  
## 141 East Christopherbury 1  
## 142 East Connie 1  
## 143 East Dana 1  
## 144 East Deborahhaven 1  
## 145 East Debraborough 1  
## 146 East Donna 1  
## 147 East Donnatown 1  
## 148 East Eric 1  
## 149 East Ericport 1  
## 150 East Georgeside 1  
## 151 East Graceland 1  
## 152 East Heatherside 1  
## 153 East Heidi 1  
## 154 East Henry 1  
## 155 East Jason 1  
## 156 East Jennifer 1  
## 157 East Jessefort 1  
## 158 East John 2  
## 159 East Johnport 1  
## 160 East Kevinbury 1  
## 161 East Lindsey 1  
## 162 East Maureen 1  
## 163 East Michaelland 1  
## 164 East Michaelmouth 1  
## 165 East Michaeltown 1  
## 166 East Michele 1  
## 167 East Michelleberg 1  
## 168 East Mike 1  
## 169 East Paul 1  
## 170 East Rachaelfurt 1  
## 171 East Rachelview 1  
## 172 East Ronald 1  
## 173 East Samanthashire 1  
## 174 East Sharon 1  
## 175 East Shawn 1  
## 176 East Shawnchester 1  
## 177 East Sheriville 1  
## 178 East Stephen 1  
## 179 East Susanland 1  
## 180 East Tammie 1  
## 181 East Theresashire 1  
## 182 East Tiffanyport 1  
## 183 East Timothy 2  
## 184 East Timothyport 1  
## 185 East Toddfort 1  
## 186 East Troyhaven 1  
## 187 East Tylershire 1  
## 188 East Valerie 1  
## 189 East Vincentstad 1  
## 190 East Yvonnechester 1  
## 191 Edwardmouth 1  
## 192 Edwardsmouth 1  
## 193 Edwardsport 1  
## 194 Elizabethbury 1  
## 195 Elizabethmouth 1  
## 196 Elizabethport 1  
## 197 Elizabethstad 1  
## 198 Emilyfurt 1  
## 199 Ericksonmouth 1  
## 200 Erikville 1  
## 201 Erinmouth 1  
## 202 Erinton 1  
## 203 Estesfurt 1  
## 204 Estradafurt 1  
## 205 Estradashire 1  
## 206 Evansfurt 1  
## 207 Evansville 1  
## 208 Faithview 1  
## 209 Florestown 1  
## 210 Fosterside 1  
## 211 Frankbury 1  
## 212 Frankchester 1  
## 213 Frankport 1  
## 214 Fraziershire 1  
## 215 Garciamouth 1  
## 216 Garciaside 1  
## 217 Garciatown 1  
## 218 Garciaview 1  
## 219 Garnerberg 1  
## 220 Garrettborough 1  
## 221 Garychester 1  
## 222 Gilbertville 1  
## 223 Gomezport 1  
## 224 Gonzalezburgh 1  
## 225 Grahamberg 1  
## 226 Gravesport 1  
## 227 Greenechester 1  
## 228 Greentown 1  
## 229 Greerport 1  
## 230 Greerton 1  
## 231 Greghaven 1  
## 232 Guzmanland 1  
## 233 Haleberg 1  
## 234 Haleview 1  
## 235 Hallfort 1  
## 236 Hamiltonfort 1  
## 237 Hammondport 1  
## 238 Hannahside 1  
## 239 Hannaport 1  
## 240 Hansenland 1  
## 241 Hansenmouth 1  
## 242 Harmonhaven 1  
## 243 Harperborough 1  
## 244 Harrishaven 1  
## 245 Harrisonmouth 1  
## 246 Hartmanchester 1  
## 247 Hartport 1  
## 248 Harveyport 1  
## 249 Hatfieldshire 1  
## 250 Hawkinsbury 1  
## 251 Hayesmouth 1  
## 252 Heatherberg 1  
## 253 Helenborough 1  
## 254 Hendrixmouth 1  
## 255 Henryfort 1  
## 256 Henryland 1  
## 257 Hernandezchester 1  
## 258 Hernandezfort 1  
## 259 Hernandezside 1  
## 260 Hernandezville 1  
## 261 Hessstad 1  
## 262 Hintonport 1  
## 263 Hobbsbury 1  
## 264 Holderville 1  
## 265 Hollandberg 1  
## 266 Hollyfurt 1  
## 267 Hubbardmouth 1  
## 268 Huffmanchester 1  
## 269 Hughesport 1  
## 270 Hurleyborough 1  
## 271 Ianmouth 1  
## 272 Ingramberg 1  
## 273 Isaacborough 1  
## 274 Jacksonburgh 1  
## 275 Jacksonmouth 1  
## 276 Jacksonstad 1  
## 277 Jacobstad 1  
## 278 Jacquelineshire 1  
## 279 Jamesberg 1  
## 280 Jamesfurt 1  
## 281 Jamesmouth 1  
## 282 Jamesville 1  
## 283 Jamieberg 1  
## 284 Jamiefort 1  
## 285 Janiceview 1  
## 286 Jasminefort 1  
## 287 Jayville 1  
## 288 Jeffreyburgh 1  
## 289 Jeffreymouth 1  
## 290 Jeffreyshire 1  
## 291 Jenniferhaven 1  
## 292 Jenniferstad 1  
## 293 Jensenborough 1  
## 294 Jensenton 1  
## 295 Jeremybury 1  
## 296 Jeremyshire 1  
## 297 Jessicahaven 1  
## 298 Jessicashire 1  
## 299 Jessicastad 1  
## 300 Joanntown 1  
## 301 Joechester 1  
## 302 Johnport 1  
## 303 Johnsonfort 1  
## 304 Johnsontown 1  
## 305 Johnsonview 1  
## 306 Johnsport 1  
## 307 Johnstad 2  
## 308 Johnstonmouth 1  
## 309 Johnstonshire 1  
## 310 Jonathanland 1  
## 311 Jonathantown 1  
## 312 Jonesland 1  
## 313 Jonesmouth 1  
## 314 Jonesshire 1  
## 315 Joneston 2  
## 316 Jordanmouth 1  
## 317 Jordanshire 1  
## 318 Jordantown 1  
## 319 Josephberg 1  
## 320 Josephmouth 1  
## 321 Josephstad 1  
## 322 Joshuaburgh 1  
## 323 Joshuamouth 1  
## 324 Juanport 1  
## 325 Juliaport 1  
## 326 Julietown 1  
## 327 Karenmouth 1  
## 328 Karenton 1  
## 329 Katieport 1  
## 330 Kaylashire 1  
## 331 Keithtown 1  
## 332 Kellytown 1  
## 333 Kennedyfurt 1  
## 334 Kennethview 1  
## 335 Kentmouth 1  
## 336 Kevinberg 1  
## 337 Kevinchester 1  
## 338 Kimberlyhaven 1  
## 339 Kimberlymouth 1  
## 340 Kimberlytown 1  
## 341 Kingchester 1  
## 342 Kingshire 1  
## 343 Klineside 1  
## 344 Knappburgh 1  
## 345 Kristineberg 1  
## 346 Kristinfurt 1  
## 347 Kristintown 1  
## 348 Kyleborough 1  
## 349 Kylieview 1  
## 350 Lake Adrian 1  
## 351 Lake Allenville 1  
## 352 Lake Amanda 1  
## 353 Lake Amy 1  
## 354 Lake Angela 1  
## 355 Lake Annashire 1  
## 356 Lake Beckyburgh 1  
## 357 Lake Brandonview 1  
## 358 Lake Brian 1  
## 359 Lake Cassandraport 1  
## 360 Lake Charlottestad 1  
## 361 Lake Christopherfurt 1  
## 362 Lake Conniefurt 1  
## 363 Lake Courtney 1  
## 364 Lake Craigview 1  
## 365 Lake Cynthia 1  
## 366 Lake Danielle 1  
## 367 Lake David 2  
## 368 Lake Deannaborough 1  
## 369 Lake Deborahburgh 1  
## 370 Lake Dustin 1  
## 371 Lake Edward 1  
## 372 Lake Elizabethside 1  
## 373 Lake Evantown 1  
## 374 Lake Faith 1  
## 375 Lake Gerald 1  
## 376 Lake Hailey 1  
## 377 Lake Ian 1  
## 378 Lake Jacob 1  
## 379 Lake Jacqueline 1  
## 380 Lake James 2  
## 381 Lake Jasonchester 1  
## 382 Lake Jennifer 1  
## 383 Lake Jenniferton 1  
## 384 Lake Jessica 1  
## 385 Lake Jessicaville 1  
## 386 Lake Jesus 1  
## 387 Lake Jillville 1  
## 388 Lake John 1  
## 389 Lake Johnbury 1  
## 390 Lake Jonathanview 1  
## 391 Lake Jose 2  
## 392 Lake Joseph 1  
## 393 Lake Josetown 1  
## 394 Lake Joshuafurt 1  
## 395 Lake Kevin 1  
## 396 Lake Kurtmouth 1  
## 397 Lake Lisa 1  
## 398 Lake Matthew 1  
## 399 Lake Matthewland 1  
## 400 Lake Melindamouth 1  
## 401 Lake Michael 1  
## 402 Lake Michaelport 1  
## 403 Lake Michelle 1  
## 404 Lake Michellebury 1  
## 405 Lake Nicole 1  
## 406 Lake Patrick 2  
## 407 Lake Rhondaburgh 1  
## 408 Lake Stephenborough 1  
## 409 Lake Susan 2  
## 410 Lake Timothy 1  
## 411 Lake Tracy 1  
## 412 Lake Vanessa 1  
## 413 Lake Zacharyfurt 1  
## 414 Lauraburgh 1  
## 415 Laurieside 1  
## 416 Lawrenceborough 1  
## 417 Lawsonshire 1  
## 418 Leahside 1  
## 419 Leonchester 1  
## 420 Lesliebury 1  
## 421 Lesliefort 1  
## 422 Lewismouth 1  
## 423 Lindaside 1  
## 424 Lindsaymouth 1  
## 425 Lisaberg 1  
## 426 Lisafort 1  
## 427 Lisamouth 3  
## 428 Lopezberg 1  
## 429 Lopezmouth 1  
## 430 Loriville 1  
## 431 Lovemouth 1  
## 432 Luischester 1  
## 433 Luisfurt 1  
## 434 Lukeport 1  
## 435 Mackenziemouth 1  
## 436 Marcushaven 1  
## 437 Mariahview 1  
## 438 Mariebury 1  
## 439 Mariemouth 1  
## 440 Markhaven 1  
## 441 Masonhaven 1  
## 442 Masseyshire 1  
## 443 Mataberg 1  
## 444 Matthewtown 1  
## 445 Mauricefurt 1  
## 446 Mauriceshire 1  
## 447 Mcdonaldfort 1  
## 448 Mclaughlinbury 1  
## 449 Meaganfort 1  
## 450 Meghanchester 1  
## 451 Melanieton 1  
## 452 Melissachester 1  
## 453 Melissafurt 1  
## 454 Melissastad 1  
## 455 Meyerchester 1  
## 456 Meyersstad 1  
## 457 Mezaton 1  
## 458 Michaelland 1  
## 459 Michaelmouth 1  
## 460 Michaelshire 1  
## 461 Micheletown 1  
## 462 Michellefort 1  
## 463 Michelleside 2  
## 464 Millerbury 2  
## 465 Millerchester 1  
## 466 Millerfort 1  
## 467 Millerland 1  
## 468 Millerside 1  
## 469 Millertown 2  
## 470 Millerview 1  
## 471 Mollyport 1  
## 472 Monicaview 1  
## 473 Morganfort 1  
## 474 Morganport 1  
## 475 Morrismouth 1  
## 476 Mosleyburgh 1  
## 477 Mullenside 1  
## 478 Munozberg 1  
## 479 Murphymouth 1  
## 480 Nelsonfurt 1  
## 481 New Amanda 1  
## 482 New Angelview 1  
## 483 New Brandy 1  
## 484 New Brendafurt 1  
## 485 New Charleschester 1  
## 486 New Christinatown 1  
## 487 New Cynthia 1  
## 488 New Daniellefort 1  
## 489 New Darlene 1  
## 490 New Dawnland 1  
## 491 New Debbiestad 1  
## 492 New Denisebury 1  
## 493 New Frankshire 1  
## 494 New Gabriel 1  
## 495 New Henry 1  
## 496 New Hollyberg 1  
## 497 New James 1  
## 498 New Jamestown 1  
## 499 New Jasmine 1  
## 500 New Jay 1  
## 501 New Jeffreychester 1  
## 502 New Jessicaport 2  
## 503 New Johnberg 1  
## 504 New Joshuaport 1  
## 505 New Juan 1  
## 506 New Julianberg 1  
## 507 New Julie 1  
## 508 New Karenberg 1  
## 509 New Kayla 1  
## 510 New Keithburgh 1  
## 511 New Lindaberg 1  
## 512 New Lucasburgh 1  
## 513 New Marcusbury 1  
## 514 New Maria 1  
## 515 New Matthew 1  
## 516 New Michael 1  
## 517 New Michaeltown 1  
## 518 New Nancy 1  
## 519 New Nathan 1  
## 520 New Patriciashire 1  
## 521 New Patrick 1  
## 522 New Paul 1  
## 523 New Rachel 1  
## 524 New Rebecca 1  
## 525 New Sabrina 1  
## 526 New Sean 1  
## 527 New Shane 1  
## 528 New Sharon 1  
## 529 New Sheila 2  
## 530 New Sonialand 1  
## 531 New Steve 1  
## 532 New Tammy 1  
## 533 New Taylorburgh 1  
## 534 New Teresa 1  
## 535 New Theresa 1  
## 536 New Thomas 1  
## 537 New Timothy 1  
## 538 New Tina 1  
## 539 New Tinamouth 1  
## 540 New Traceystad 1  
## 541 New Travis 1  
## 542 New Travistown 1  
## 543 New Tyler 1  
## 544 New Wanda 1  
## 545 New Williammouth 1  
## 546 New Williamville 1  
## 547 Newmanberg 1  
## 548 Nicholasland 1  
## 549 Nicholasport 1  
## 550 North Aaronburgh 1  
## 551 North Aaronchester 1  
## 552 North Alexandra 1  
## 553 North Anaport 1  
## 554 North Andrew 1  
## 555 North Andrewstad 1  
## 556 North Angelastad 1  
## 557 North Angelatown 1  
## 558 North Anna 1  
## 559 North April 1  
## 560 North Brandon 1  
## 561 North Brittanyburgh 1  
## 562 North Cassie 1  
## 563 North Charlesbury 1  
## 564 North Christopher 1  
## 565 North Daniel 2  
## 566 North Debra 1  
## 567 North Debrashire 1  
## 568 North Derekville 1  
## 569 North Destiny 1  
## 570 North Elizabeth 1  
## 571 North Frankstad 1  
## 572 North Garyhaven 1  
## 573 North Isabellaville 1  
## 574 North Jenniferburgh 1  
## 575 North Jeremyport 1  
## 576 North Jessicaville 1  
## 577 North Johnside 1  
## 578 North Johntown 1  
## 579 North Jonathan 1  
## 580 North Joshua 1  
## 581 North Katie 1  
## 582 North Kennethside 1  
## 583 North Kevinside 1  
## 584 North Kimberly 1  
## 585 North Kristine 1  
## 586 North Lauraland 1  
## 587 North Laurenview 1  
## 588 North Leonmouth 1  
## 589 North Lisachester 1  
## 590 North Loriburgh 1  
## 591 North Mark 1  
## 592 North Maryland 1  
## 593 North Mercedes 1  
## 594 North Michael 1  
## 595 North Monicaville 1  
## 596 North Randy 1  
## 597 North Raymond 1  
## 598 North Regina 1  
## 599 North Ricardotown 1  
## 600 North Richardburgh 1  
## 601 North Ronaldshire 1  
## 602 North Russellborough 1  
## 603 North Samantha 1  
## 604 North Sarashire 1  
## 605 North Shannon 1  
## 606 North Stephanieberg 1  
## 607 North Tara 1  
## 608 North Tiffany 1  
## 609 North Tracyport 1  
## 610 North Tylerland 1  
## 611 North Virginia 1  
## 612 North Wesleychester 1  
## 613 Novaktown 1  
## 614 Odomville 1  
## 615 Olsonside 1  
## 616 Olsonstad 1  
## 617 Palmerside 1  
## 618 Pamelamouth 2  
## 619 Parkerhaven 1  
## 620 Patriciahaven 1  
## 621 Patrickmouth 1  
## 622 Pattymouth 1  
## 623 Paulhaven 1  
## 624 Paulport 1  
## 625 Paulshire 1  
## 626 Pearsonfort 1  
## 627 Penatown 1  
## 628 Perezland 1  
## 629 Perryburgh 1  
## 630 Petersonfurt 1  
## 631 Phelpschester 1  
## 632 Philipberg 1  
## 633 Phillipsbury 1  
## 634 Port Aliciabury 1  
## 635 Port Angelamouth 1  
## 636 Port Anthony 1  
## 637 Port Aprilville 1  
## 638 Port Beth 1  
## 639 Port Blake 1  
## 640 Port Brenda 1  
## 641 Port Brian 1  
## 642 Port Brianfort 1  
## 643 Port Brittanyville 1  
## 644 Port Brookeland 1  
## 645 Port Calvintown 1  
## 646 Port Cassie 1  
## 647 Port Chasemouth 1  
## 648 Port Christina 1  
## 649 Port Christinemouth 1  
## 650 Port Christopher 1  
## 651 Port Christopherborough 1  
## 652 Port Crystal 1  
## 653 Port Daniel 1  
## 654 Port Danielleberg 1  
## 655 Port Davidland 1  
## 656 Port Dennis 1  
## 657 Port Derekberg 1  
## 658 Port Destiny 1  
## 659 Port Douglasborough 1  
## 660 Port Elijah 1  
## 661 Port Eric 1  
## 662 Port Erikhaven 1  
## 663 Port Erinberg 1  
## 664 Port Eugeneport 1  
## 665 Port Georgebury 1  
## 666 Port Gregory 1  
## 667 Port Jacqueline 1  
## 668 Port Jacquelinestad 1  
## 669 Port James 1  
## 670 Port Jasmine 1  
## 671 Port Jason 2  
## 672 Port Jefferybury 1  
## 673 Port Jeffrey 1  
## 674 Port Jennifer 1  
## 675 Port Jessica 1  
## 676 Port Jessicamouth 1  
## 677 Port Jodi 1  
## 678 Port Joshuafort 1  
## 679 Port Juan 2  
## 680 Port Julie 2  
## 681 Port Karenfurt 1  
## 682 Port Katelynview 1  
## 683 Port Kathleenfort 1  
## 684 Port Kevinborough 1  
## 685 Port Lawrence 1  
## 686 Port Maria 1  
## 687 Port Mathew 1  
## 688 Port Melissaberg 1  
## 689 Port Melissastad 1  
## 690 Port Michaelmouth 1  
## 691 Port Michealburgh 1  
## 692 Port Mitchell 1  
## 693 Port Patrickton 1  
## 694 Port Paultown 1  
## 695 Port Rachel 1  
## 696 Port Raymondfort 1  
## 697 Port Robin 1  
## 698 Port Sarahhaven 1  
## 699 Port Sarahshire 1  
## 700 Port Sherrystad 1  
## 701 Port Stacey 1  
## 702 Port Stacy 1  
## 703 Port Susan 1  
## 704 Port Whitneyhaven 1  
## 705 Portermouth 1  
## 706 Pottermouth 1  
## 707 Princebury 1  
## 708 Pruittmouth 1  
## 709 Rachelhaven 1  
## 710 Ramirezhaven 1  
## 711 Ramirezland 1  
## 712 Ramirezside 1  
## 713 Ramirezton 1  
## 714 Ramosstad 1  
## 715 Randolphport 1  
## 716 Randyshire 1  
## 717 Rebeccamouth 1  
## 718 Reginamouth 1  
## 719 Reneechester 1  
## 720 Reyesfurt 1  
## 721 Reyesland 1  
## 722 Rhondaborough 1  
## 723 Richardshire 1  
## 724 Richardsland 1  
## 725 Richardsonland 1  
## 726 Richardsonmouth 1  
## 727 Richardsonshire 1  
## 728 Richardsontown 1  
## 729 Rickymouth 1  
## 730 Riggsstad 1  
## 731 Rivasland 1  
## 732 Robertbury 1  
## 733 Robertfurt 2  
## 734 Robertmouth 1  
## 735 Robertside 1  
## 736 Robertsonburgh 1  
## 737 Robertstown 1  
## 738 Roberttown 1  
## 739 Robinsonland 1  
## 740 Robinsontown 1  
## 741 Rochabury 1  
## 742 Rogerburgh 1  
## 743 Rogerland 1  
## 744 Ronaldport 1  
## 745 Ronniemouth 1  
## 746 Russellville 1  
## 747 Ryanhaven 1  
## 748 Sabrinaview 1  
## 749 Salazarbury 1  
## 750 Samanthaland 1  
## 751 Samuelborough 1  
## 752 Sanchezland 1  
## 753 Sanchezmouth 1  
## 754 Sandersland 1  
## 755 Sanderstown 1  
## 756 Sandraland 1  
## 757 Sandrashire 1  
## 758 Sandraville 1  
## 759 Sarafurt 1  
## 760 Sarahland 1  
## 761 Sarahton 1  
## 762 Sellerstown 1  
## 763 Shaneland 1  
## 764 Sharpberg 1  
## 765 Shawnside 1  
## 766 Shawstad 1  
## 767 Shelbyport 2  
## 768 Sherrishire 1  
## 769 Shirleyfort 1  
## 770 Silvaton 1  
## 771 Smithburgh 1  
## 772 Smithside 1  
## 773 Smithtown 1  
## 774 South Aaron 1  
## 775 South Adam 1  
## 776 South Adamhaven 1  
## 777 South Alexisborough 1  
## 778 South Blakestad 1  
## 779 South Brian 1  
## 780 South Cathyfurt 1  
## 781 South Christopher 1  
## 782 South Corey 1  
## 783 South Cynthiashire 1  
## 784 South Daniel 1  
## 785 South Daniellefort 1  
## 786 South Davidhaven 1  
## 787 South Davidmouth 1  
## 788 South Denise 1  
## 789 South Denisefurt 1  
## 790 South Dianeshire 1  
## 791 South George 1  
## 792 South Henry 1  
## 793 South Jackieberg 1  
## 794 South Jade 1  
## 795 South Jaimeview 1  
## 796 South Jasminebury 1  
## 797 South Jeanneport 1  
## 798 South Jennifer 1  
## 799 South Jessica 1  
## 800 South John 1  
## 801 South Johnnymouth 1  
## 802 South Kyle 1  
## 803 South Lauraton 1  
## 804 South Lauratown 1  
## 805 South Lisa 2  
## 806 South Manuel 1  
## 807 South Margaret 1  
## 808 South Mark 1  
## 809 South Meghan 1  
## 810 South Meredithmouth 1  
## 811 South Pamela 1  
## 812 South Patrickfort 1  
## 813 South Peter 1  
## 814 South Rebecca 1  
## 815 South Renee 1  
## 816 South Robert 1  
## 817 South Ronald 1  
## 818 South Stephanieport 1  
## 819 South Tiffanyton 1  
## 820 South Tomside 1  
## 821 South Troy 1  
## 822 South Vincentchester 1  
## 823 South Walter 1  
## 824 Staceyfort 1  
## 825 Stephenborough 1  
## 826 Stewartbury 1  
## 827 Suzannetown 1  
## 828 Sylviaview 1  
## 829 Tammymouth 1  
## 830 Tammyshire 1  
## 831 Taylorberg 1  
## 832 Taylorhaven 1  
## 833 Taylormouth 1  
## 834 Taylorport 1  
## 835 Teresahaven 1  
## 836 Thomasstad 1  
## 837 Thomasview 1  
## 838 Timothyfurt 1  
## 839 Timothymouth 1  
## 840 Timothyport 1  
## 841 Timothytown 1  
## 842 Tinachester 1  
## 843 Tinaton 1  
## 844 Townsendfurt 1  
## 845 Tracyhaven 1  
## 846 Tranland 1  
## 847 Troyville 1  
## 848 Turnerchester 1  
## 849 Turnerview 1  
## 850 Turnerville 1  
## 851 Tylerport 1  
## 852 Valerieland 1  
## 853 Vanessastad 1  
## 854 Vanessaview 1  
## 855 Villanuevastad 1  
## 856 Villanuevaton 1  
## 857 Wademouth 1  
## 858 Wadestad 1  
## 859 Wagnerchester 1  
## 860 Wallacechester 1  
## 861 Walshhaven 1  
## 862 Waltertown 1  
## 863 Watsonfort 1  
## 864 Welchshire 1  
## 865 Wendyton 1  
## 866 Wendyville 1  
## 867 West Alice 1  
## 868 West Alyssa 1  
## 869 West Amanda 2  
## 870 West Andrew 1  
## 871 West Angela 1  
## 872 West Angelabury 1  
## 873 West Annefort 1  
## 874 West Aprilport 1  
## 875 West Arielstad 1  
## 876 West Barbara 1  
## 877 West Benjamin 1  
## 878 West Brad 1  
## 879 West Brandonton 1  
## 880 West Brenda 1  
## 881 West Carmenfurt 1  
## 882 West Casey 1  
## 883 West Chloeborough 1  
## 884 West Christopher 1  
## 885 West Colin 1  
## 886 West Connor 1  
## 887 West Courtney 1  
## 888 West Daleborough 1  
## 889 West Dannyberg 1  
## 890 West David 1  
## 891 West Dennis 1  
## 892 West Derekmouth 1  
## 893 West Dylanberg 1  
## 894 West Eduardotown 1  
## 895 West Ericaport 1  
## 896 West Ericfurt 1  
## 897 West Gabriellamouth 1  
## 898 West Gregburgh 1  
## 899 West Guybury 1  
## 900 West James 1  
## 901 West Jane 1  
## 902 West Jeremyside 1  
## 903 West Jessicahaven 1  
## 904 West Jodi 1  
## 905 West Joseph 1  
## 906 West Julia 1  
## 907 West Justin 1  
## 908 West Katiefurt 1  
## 909 West Kevinfurt 1  
## 910 West Lacey 1  
## 911 West Leahton 1  
## 912 West Lindseybury 1  
## 913 West Lisa 1  
## 914 West Lucas 1  
## 915 West Mariafort 1  
## 916 West Melaniefurt 1  
## 917 West Melissashire 1  
## 918 West Michaelhaven 1  
## 919 West Michaelport 1  
## 920 West Michaelshire 1  
## 921 West Michaelstad 1  
## 922 West Pamela 1  
## 923 West Randy 1  
## 924 West Raymondmouth 1  
## 925 West Rhondamouth 1  
## 926 West Ricardo 1  
## 927 West Richard 1  
## 928 West Robertside 1  
## 929 West Roytown 1  
## 930 West Russell 1  
## 931 West Ryan 1  
## 932 West Samantha 1  
## 933 West Shannon 2  
## 934 West Sharon 1  
## 935 West Shaun 1  
## 936 West Steven 2  
## 937 West Sydney 1  
## 938 West Tanner 1  
## 939 West Tanya 1  
## 940 West Terrifurt 1  
## 941 West Thomas 1  
## 942 West Tinashire 1  
## 943 West Travismouth 1  
## 944 West Wendyland 1  
## 945 West William 1  
## 946 West Zacharyborough 1  
## 947 Westshire 1  
## 948 Whiteport 1  
## 949 Whitneyfort 1  
## 950 Wilcoxport 1  
## 951 Williammouth 1  
## 952 Williamport 1  
## 953 Williamsborough 1  
## 954 Williamsfort 1  
## 955 Williamsmouth 1  
## 956 Williamsport 3  
## 957 Williamsside 1  
## 958 Williamstad 1  
## 959 Wilsonburgh 1  
## 960 Wintersfort 1  
## 961 Wongland 1  
## 962 Wrightburgh 2  
## 963 Wrightview 1  
## 964 Yangside 1  
## 965 Youngburgh 1  
## 966 Youngfort 1  
## 967 Yuton 1  
## 968 Zacharystad 1  
## 969 Zacharyton 1

#Country  
count(vert, 'Country')

## Country freq  
## 1 Afghanistan 8  
## 2 Albania 7  
## 3 Algeria 6  
## 4 American Samoa 5  
## 5 Andorra 2  
## 6 Angola 4  
## 7 Anguilla 6  
## 8 Antarctica (the territory South of 60 deg S) 3  
## 9 Antigua and Barbuda 5  
## 10 Argentina 2  
## 11 Armenia 3  
## 12 Aruba 1  
## 13 Australia 8  
## 14 Austria 5  
## 15 Azerbaijan 3  
## 16 Bahamas 7  
## 17 Bahrain 5  
## 18 Bangladesh 4  
## 19 Barbados 5  
## 20 Belarus 6  
## 21 Belgium 5  
## 22 Belize 5  
## 23 Benin 2  
## 24 Bermuda 1  
## 25 Bhutan 2  
## 26 Bolivia 6  
## 27 Bosnia and Herzegovina 7  
## 28 Bouvet Island (Bouvetoya) 5  
## 29 Brazil 5  
## 30 British Indian Ocean Territory (Chagos Archipelago) 1  
## 31 British Virgin Islands 3  
## 32 Brunei Darussalam 5  
## 33 Bulgaria 6  
## 34 Burkina Faso 4  
## 35 Burundi 7  
## 36 Cambodia 7  
## 37 Cameroon 5  
## 38 Canada 5  
## 39 Cape Verde 1  
## 40 Cayman Islands 5  
## 41 Central African Republic 2  
## 42 Chad 4  
## 43 Chile 4  
## 44 China 6  
## 45 Christmas Island 6  
## 46 Colombia 2  
## 47 Comoros 2  
## 48 Congo 4  
## 49 Cook Islands 3  
## 50 Costa Rica 6  
## 51 Cote d'Ivoire 4  
## 52 Croatia 6  
## 53 Cuba 5  
## 54 Cyprus 8  
## 55 Czech Republic 9  
## 56 Denmark 3  
## 57 Djibouti 2  
## 58 Dominica 5  
## 59 Dominican Republic 4  
## 60 Ecuador 5  
## 61 Egypt 5  
## 62 El Salvador 6  
## 63 Equatorial Guinea 4  
## 64 Eritrea 7  
## 65 Estonia 3  
## 66 Ethiopia 7  
## 67 Falkland Islands (Malvinas) 4  
## 68 Faroe Islands 3  
## 69 Fiji 7  
## 70 Finland 5  
## 71 France 9  
## 72 French Guiana 4  
## 73 French Polynesia 5  
## 74 French Southern Territories 5  
## 75 Gabon 6  
## 76 Gambia 2  
## 77 Georgia 4  
## 78 Germany 1  
## 79 Ghana 4  
## 80 Gibraltar 3  
## 81 Greece 8  
## 82 Greenland 5  
## 83 Grenada 4  
## 84 Guadeloupe 2  
## 85 Guam 4  
## 86 Guatemala 4  
## 87 Guernsey 3  
## 88 Guinea 3  
## 89 Guinea-Bissau 2  
## 90 Guyana 5  
## 91 Haiti 2  
## 92 Heard Island and McDonald Islands 3  
## 93 Holy See (Vatican City State) 3  
## 94 Honduras 5  
## 95 Hong Kong 6  
## 96 Hungary 6  
## 97 Iceland 3  
## 98 India 2  
## 99 Indonesia 6  
## 100 Iran 5  
## 101 Ireland 3  
## 102 Isle of Man 3  
## 103 Israel 4  
## 104 Italy 5  
## 105 Jamaica 5  
## 106 Japan 4  
## 107 Jersey 6  
## 108 Jordan 1  
## 109 Kazakhstan 4  
## 110 Kenya 4  
## 111 Kiribati 1  
## 112 Korea 5  
## 113 Kuwait 2  
## 114 Kyrgyz Republic 6  
## 115 Lao People's Democratic Republic 4  
## 116 Latvia 4  
## 117 Lebanon 6  
## 118 Lesotho 1  
## 119 Liberia 8  
## 120 Libyan Arab Jamahiriya 4  
## 121 Liechtenstein 6  
## 122 Lithuania 3  
## 123 Luxembourg 7  
## 124 Macao 3  
## 125 Macedonia 2  
## 126 Madagascar 6  
## 127 Malawi 4  
## 128 Malaysia 3  
## 129 Maldives 4  
## 130 Mali 4  
## 131 Malta 6  
## 132 Marshall Islands 1  
## 133 Martinique 4  
## 134 Mauritania 2  
## 135 Mauritius 4  
## 136 Mayotte 6  
## 137 Mexico 6  
## 138 Micronesia 8  
## 139 Moldova 6  
## 140 Monaco 3  
## 141 Mongolia 6  
## 142 Montenegro 2  
## 143 Montserrat 1  
## 144 Morocco 3  
## 145 Mozambique 1  
## 146 Myanmar 5  
## 147 Namibia 2  
## 148 Nauru 3  
## 149 Nepal 3  
## 150 Netherlands 4  
## 151 Netherlands Antilles 6  
## 152 New Caledonia 2  
## 153 New Zealand 4  
## 154 Nicaragua 3  
## 155 Niger 3  
## 156 Niue 3  
## 157 Norfolk Island 5  
## 158 Northern Mariana Islands 3  
## 159 Norway 2  
## 160 Pakistan 5  
## 161 Palau 4  
## 162 Palestinian Territory 3  
## 163 Panama 2  
## 164 Papua New Guinea 5  
## 165 Paraguay 3  
## 166 Peru 8  
## 167 Philippines 6  
## 168 Pitcairn Islands 2  
## 169 Poland 6  
## 170 Portugal 3  
## 171 Puerto Rico 6  
## 172 Qatar 6  
## 173 Reunion 2  
## 174 Romania 1  
## 175 Russian Federation 3  
## 176 Rwanda 5  
## 177 Saint Barthelemy 2  
## 178 Saint Helena 5  
## 179 Saint Kitts and Nevis 1  
## 180 Saint Lucia 2  
## 181 Saint Martin 4  
## 182 Saint Pierre and Miquelon 5  
## 183 Saint Vincent and the Grenadines 6  
## 184 Samoa 6  
## 185 San Marino 3  
## 186 Sao Tome and Principe 2  
## 187 Saudi Arabia 4  
## 188 Senegal 8  
## 189 Serbia 5  
## 190 Seychelles 3  
## 191 Sierra Leone 2  
## 192 Singapore 6  
## 193 Slovakia (Slovak Republic) 2  
## 194 Slovenia 1  
## 195 Somalia 5  
## 196 South Africa 8  
## 197 South Georgia and the South Sandwich Islands 2  
## 198 Spain 3  
## 199 Sri Lanka 4  
## 200 Sudan 2  
## 201 Suriname 2  
## 202 Svalbard & Jan Mayen Islands 6  
## 203 Swaziland 2  
## 204 Sweden 4  
## 205 Switzerland 4  
## 206 Syrian Arab Republic 3  
## 207 Taiwan 7  
## 208 Tajikistan 3  
## 209 Tanzania 3  
## 210 Thailand 4  
## 211 Timor-Leste 5  
## 212 Togo 3  
## 213 Tokelau 4  
## 214 Tonga 5  
## 215 Trinidad and Tobago 3  
## 216 Tunisia 4  
## 217 Turkey 8  
## 218 Turkmenistan 6  
## 219 Turks and Caicos Islands 5  
## 220 Tuvalu 4  
## 221 Uganda 4  
## 222 Ukraine 5  
## 223 United Arab Emirates 6  
## 224 United Kingdom 3  
## 225 United States Minor Outlying Islands 4  
## 226 United States of America 5  
## 227 United States Virgin Islands 4  
## 228 Uruguay 5  
## 229 Uzbekistan 2  
## 230 Vanuatu 6  
## 231 Venezuela 7  
## 232 Vietnam 3  
## 233 Wallis and Futuna 4  
## 234 Western Sahara 7  
## 235 Yemen 3  
## 236 Zambia 4  
## 237 Zimbabwe 6

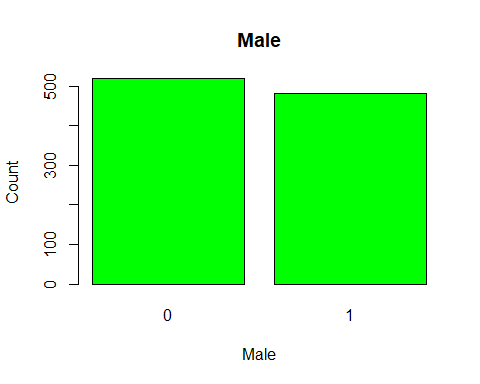
#Clicked on Ad  
count(vert, 'Clicked.on.Ad')

## Clicked.on.Ad freq  
## 1 0 500  
## 2 1 500

The ratio is the same

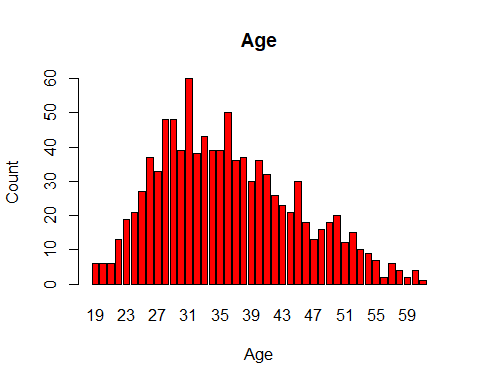
####Visualizations

#Male  
plot(factor(vert$"Male"), xlab ="Male", ylab ="Count", col= "green", main = "Male")



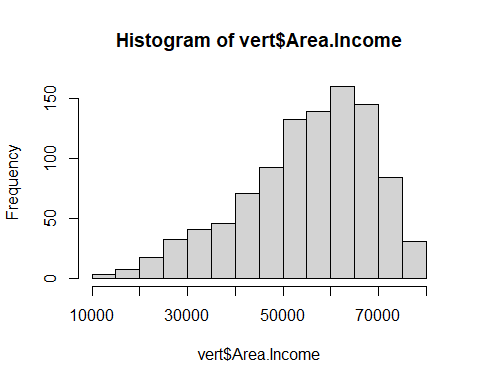
The number of participants who are not male is significantly higher.

#Age  
plot(factor(vert$"Age"), xlab ="Age", ylab ="Count", col= "red", main = "Age")

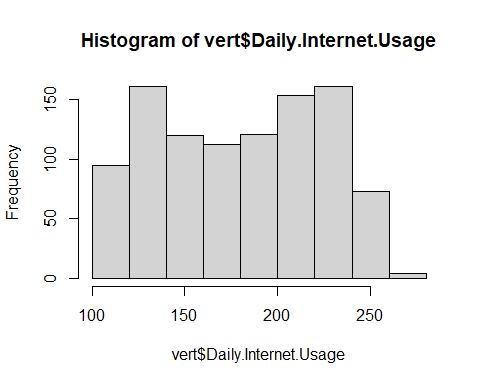
 31 years is the most predominant age

##Histogram

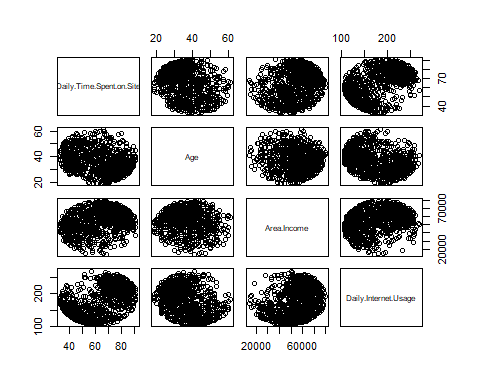
####Histogram  
hist(vert$Area.Income)

 The most predominant income is 60,000

#Daily Internet Usage  
hist(vert$Daily.Internet.Usage)

 ###BIVARIATE ANALYSIS

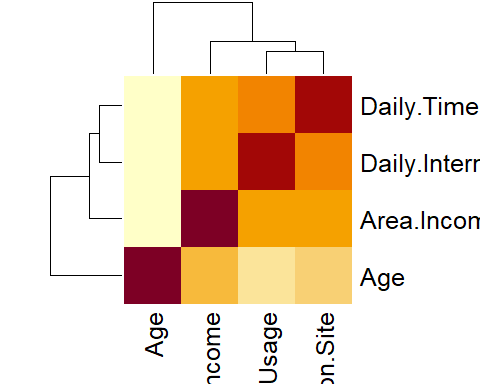
#Plotting a scatterplot between different variables  
plot(vert[, 1:4])

 Their is no correlation between various variables

#Plotting the correlation matrix  
cor(vert[,1:4])

## Daily.Time.Spent.on.Site Age Area.Income  
## Daily.Time.Spent.on.Site 1.0000000 -0.3315133 0.3109544  
## Age -0.3315133 1.0000000 -0.1826050  
## Area.Income 0.3109544 -0.1826050 1.0000000  
## Daily.Internet.Usage 0.5186585 -0.3672086 0.3374955  
## Daily.Internet.Usage  
## Daily.Time.Spent.on.Site 0.5186585  
## Age -0.3672086  
## Area.Income 0.3374955  
## Daily.Internet.Usage 1.0000000

#Plotting a heat map   
heatmap(cor(vert[,1:4]))

 Varibles that have a high correlation are: Daily Internet and Time spent on site, Area income and Usage, and Usage and Daily Time spent on site.

####Recommendations 1. The company should invest on more online adverts in areas that have a high income index. 2. Age of clients affected the their time in the internet, hence the company should evaluate some digital advertising techniques. 3. Areas that had more income had a high usage index and hence the compony is advised to explore that market.

###Conclusion The company should collect more data to support the change on digital marketing. # ```