

week 12

2022-03-19

Cryptography Course IP

Define the question

- Identify which individuals are most likely to click on the ads.

Metric of success

- Successfully identify individuals most likely to click on ads.

The context

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.

Cryptography is a method of protecting information and communications through the use of codes, so that only those for whom the information is intended can read and process it.

Experimental design taken

1. Define the question, the metric for success, the context, experimental design taken.
2. Read and explore the given dataset.
3. Define the appropriateness of the available data to answer the given question.
4. Find and deal with outliers, anomalies, and missing data within the dataset.
5. Perform univariate, bivariate recording your observations.
6. Recommendation and conclusions

Appropriateness of the available data

Our dataset is suitable in identifying the traits and characteristics of those who are likely to click on ads.

The dataset consists of below features:

Daily Time Spent on Site: time on site in minutes

Age: Customer age in years

Area Income: Avg. Income of geographical area of consumer

Daily Internet Usage: Avg. minutes a day consumer is on the internet

Ad Topic Line: Headline of the advertisement

City: City of consumer

Male: Whether or not consumer was male

Country: Country of consumer

Checking the dataset

```
# Import and load our dataset
library(tidyverse)
```

```
## Warning: package 'tidyverse' was built under R version 4.1.3
```

```
## -- 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()
```

```
crypto <- read.csv("http://bit.ly/IPAdvertisingData")
```

```
# Preview the first few rows
head(crypto)
```

```
##   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
```

```
# Check number of records and variables
dim(crypto)
```

```
## [1] 1000  10
```

We have 1,000 records and 10 variable

```
class(crypto)
```

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

Our imported dataset is stored in a dataframe

```
names(crypto)
```

```
## [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"
```

```
# Check the datatypes of our dataset
glimpse(crypto)
```

```
## 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, ~
```

Our dataframe is made up of integer, double and character datatypes

```
# Summary of our dataset
summary(crypto)
```

```
## 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
```

Data Cleaning

```
# Extract duplicate values
crypto[duplicated(crypto)]
```

```
## data frame with 0 columns and 1000 rows
```

We have no duplicate values

```
# Check for missing values
sum(is.na(crypto))
```

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

```
# Check for missing values in each variable
colSums(is.na(crypto))
```

```
## 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
```

We have no missing values in our dataset

```
# Check for any anomalies
uniquelst <- lapply(crypto,unique)
uniquelst
```

```
## $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
## [373] 44.46 68.10 63.88 78.83 79.97 80.51 66.99 71.05 42.05 76.24 77.29 35.98
## [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
## [409] 81.99 84.69 88.72 88.89 69.58 85.23 83.55 56.66 56.39 78.18 46.04 79.40
## [421] 36.44 53.14 32.84 73.72 38.10 73.93 51.87 77.69 43.41 55.92 80.67 83.42
## [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
## [445] 82.38 52.68 65.59 43.84 67.69 78.37 81.46 47.48 78.76 44.96 39.56 39.76
## [457] 57.11 83.26 69.42 50.60 46.20 66.88 35.49 80.29 50.19 59.12 59.88 59.70
## [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
## [481] 70.29 59.13 81.51 42.94 84.81 82.79 59.22 35.00 46.61 63.26 79.16 67.94
## [493] 79.91 66.14 43.65 59.61 89.37 65.10 53.44 79.53 91.43 73.57 76.49 61.72
## [505] 72.03 77.47 75.65 78.15 63.80 76.59 42.60 78.77 81.95 44.73 38.35 72.53
## [517] 56.20 79.67 75.42 78.64 59.52 64.75 47.90 80.38 64.51 71.28 50.32 72.76
## [529] 72.80 74.59 46.66 48.86 37.05 81.21 66.89 68.11 69.15 65.72 40.04 68.60
## [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
## [553] 38.63 84.00 52.13 71.83 78.36 50.18 64.67 69.50 65.22 32.91 39.50 75.19
## [565] 76.21 67.76 40.01 68.41 35.55 74.54 81.75 87.85 87.97 78.17 67.91 85.77
```

```

## [577] 41.16 53.54 63.43 70.13 40.19 58.95 35.76 59.36 91.10 61.04 74.06 64.63
## [589] 81.29 76.07 75.92 78.35 46.14 46.43 66.04 84.31 83.66 81.25 85.26 86.53
## [601] 76.44 52.84 85.24 74.71 82.95 76.42 42.04 46.28 48.26 58.05 75.00 79.61
## [613] 52.56 62.18 77.89 66.08 89.21 49.96 77.44 82.58 39.36 47.23 65.57 78.01
## [625] 44.15 43.57 76.83 42.06 76.27 74.27 77.50 87.16 66.26 65.15 68.25 73.49
## [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
## [661] 67.47 81.17 89.66 79.60 65.53 61.87 83.16 44.11 56.57 83.91 79.80 71.23
## [673] 82.37 70.90 62.12 67.35 57.99 66.80 49.13 45.11 54.35 61.82 77.75 70.61
## [685] 82.72 65.07 56.93 36.56 85.73 75.81 72.94 53.63 52.35 51.58 42.32 55.04
## [697] 68.58 85.54 71.14 64.38 88.85 66.79 32.60 43.88 56.46 72.18 52.67 80.55
## [709] 67.85 82.69 35.21 36.37 74.07 59.96 85.62 40.88 36.98 56.56 36.62 49.35
## [721] 75.64 79.22 66.83 53.33 50.63 41.84 53.92 83.89 55.32 53.22 43.16 67.51
## [733] 79.89 84.25 74.18 85.78 80.96 36.91 54.47 57.51 82.30 73.21 79.09 68.47
## [745] 83.69 83.48 66.69 48.46 42.51 42.83 41.46 45.99 68.72 63.11 49.21 55.77
## [757] 44.13 57.82 72.46 78.24 74.61 89.18 44.16 55.74 88.82 70.39 78.58 35.11
## [769] 60.39 81.56 75.03 50.87 82.80 78.51 37.65 83.17 91.37 81.32 76.64 39.53
## [781] 86.58 90.75 67.71 82.41 45.82 76.79 70.05 77.35 40.34 67.39 68.68 66.03
## [793] 47.74 79.18 86.81 41.53 46.84 44.40 52.17 81.45 54.08 76.65 54.39 37.74
## [805] 69.86 85.37 80.99 77.36 55.46 35.66 50.78 40.47 45.62 84.76 80.64 75.94
## [817] 37.01 87.18 56.91 75.24 42.84 34.96 87.46 41.86 34.04 54.96 87.14 78.79
## [829] 65.56 81.05 55.71 45.48 47.00 59.64 72.55 91.15 80.53 82.49 80.94 61.76
## [841] 63.30 36.73 78.41 83.98 63.18 60.83 44.72 79.51 39.30 64.79 89.80 72.82
## [853] 38.65 59.01 78.96 63.99 41.35 62.79 45.53 51.65 54.55 69.95 79.83 85.35
## [865] 56.78 78.67 70.09 60.75 35.25 37.58 68.01 45.08 63.04 40.18 45.17 50.48
## [877] 80.87 41.88 39.87 61.84 54.97 71.40 67.26 76.58 54.37 66.47 72.88 63.37
## [889] 89.71 70.96 35.79 38.96 69.17 64.20 43.70 72.97 51.30 51.63 55.55 45.01
##
## $Age
## [1] 35 31 26 29 23 33 48 30 20 49 37 24 41 36 40 52 28 34 22 57 53 39 46 32 25
## [26] 43 45 50 47 27 42 38 54 21 60 55 44 58 56 51 19 59 61
##
## $Area.Income
## [1] 61833.90 68441.85 59785.94 54806.18 73889.99 59761.56 53852.85 24593.33
## [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
## [25] 68962.32 64828.00 38067.08 58295.82 32708.94 46179.97 51473.28 45593.93
## [33] 25583.29 30227.98 45580.92 61389.50 56770.79 76435.30 57425.87 27508.41
## [41] 57691.95 59784.18 66572.39 64929.61 57519.64 53575.48 50983.75 67058.72
## [49] 52723.34 54286.10 61526.25 58526.04 53350.11 62657.53 62722.57 67479.62
## [57] 75254.88 52336.64 56113.37 24852.90 47708.42 64654.66 71228.44 61601.05
## [65] 66281.46 73910.90 51317.33 51510.18 61005.87 32536.98 60248.97 74543.81
## [73] 75509.61 42650.32 58183.04 60465.72 57009.76 54541.56 32689.04 55605.92
## [81] 63296.87 65653.47 61652.53 30726.26 74535.94 47861.93 73600.28 58543.94
## [89] 42696.67 37334.78 71392.53 59550.05 64264.25 64147.86 25686.34 52968.22
## [97] 22473.08 64927.19 51868.85 69456.83 31947.65 51864.77 59593.56 48376.14
## [105] 56884.74 67186.54 46557.92 66541.05 33258.09 72272.90 60333.38 65229.13
## [113] 56067.38 37838.72 72683.35 56729.78 66815.54 60223.52 29727.79 49269.98
## [121] 57669.41 56791.75 63274.88 35466.80 68787.09 61227.59 56366.88 57868.44
## [129] 66618.21 73104.47 21644.91 53817.02 76368.31 67633.44 50335.46 17709.98
## [137] 41229.16 42581.23 61617.98 70575.60 64122.36 52097.32 65953.76 60192.72
## [145] 77460.07 45716.48 65120.86 49995.63 71718.51 61770.34 69112.84 72524.86
## [153] 36782.38 66699.12 64287.78 56637.59 55787.58 61142.33 61625.87 73234.87
## [161] 74166.24 62669.59 57756.89 58019.64 50960.08 48246.60 28271.84 53767.12

```

```

## [169] 43662.10 62238.58 49030.03 76003.47 68094.85 64395.85 70053.27 72423.97
## [177] 42995.80 60309.58 38349.78 63115.34 31343.39 40763.13 36752.24 65044.59
## [185] 53673.08 43444.86 44248.52 62572.88 39840.55 32593.59 41629.86 43313.73
## [193] 42993.48 46004.31 49325.48 51633.34 63363.04 64045.93 73049.30 66624.60
## [201] 77567.85 53431.35 31265.75 74780.74 70410.11 37345.24 66107.84 62336.39
## [209] 39132.64 38745.29 65172.22 68519.96 54774.77 76246.96 65461.92 34127.21
## [217] 35253.98 44893.71 59621.02 20856.54 55353.41 67516.07 68737.75 76893.84
## [225] 59886.58 53441.69 41356.31 49942.66 74430.08 58633.63 72707.87 31092.93
## [233] 74445.18 49309.14 56735.14 40183.75 58348.41 72209.99 62060.11 67113.46
## [241] 24030.06 56180.93 62204.93 60372.64 65280.16 34309.24 59610.81 50278.89
## [249] 43450.11 25408.21 71136.49 63883.81 64902.47 66784.81 62784.85 63727.50
## [257] 61608.23 56782.18 64447.77 42042.95 67669.06 54875.95 73347.67 50199.77
## [265] 50723.67 63450.96 56694.12 70547.16 47391.95 62312.23 63100.13 73687.50
## [273] 52686.47 78119.50 57014.84 27086.40 58337.18 50216.01 53049.44 62927.96
## [281] 32847.53 32006.82 48913.07 69285.69 53700.57 52011.00 46339.25 67938.77
## [289] 66348.95 66873.90 72270.88 61610.05 76560.59 62667.51 75687.46 66744.65
## [297] 67714.82 69710.51 66269.49 60843.32 55041.60 73863.25 62378.05 63336.85
## [305] 42191.61 56194.56 61771.90 61383.79 63924.82 23975.35 70179.11 66524.80
## [313] 41851.38 61275.18 60638.38 47160.53 48537.18 53058.91 68614.98 44174.25
## [321] 67050.16 54520.14 54952.42 69476.42 54989.93 29398.61 42861.42 65883.39
## [329] 65421.39 60953.93 58476.57 66636.84 67430.96 57260.41 66359.32 57587.00
## [337] 63060.55 59998.50 74024.61 60550.66 57983.30 52736.33 46653.75 56986.73
## [345] 55336.18 42162.90 39699.13 56394.82 75044.35 53309.61 58996.12 56605.12
## [353] 62475.99 70492.60 43698.53 57737.51 31281.01 45800.48 42362.49 66691.23
## [361] 56369.74 59397.89 66025.11 68211.35 73608.99 61228.96 72325.91 44559.43
## [369] 73207.15 46722.07 45400.50 41417.27 60845.55 60812.77 64267.88 58151.87
## [377] 52079.18 26023.99 62318.38 56216.57 61806.31 51662.24 67080.94 51975.41
## [385] 28019.09 67744.56 66574.00 30487.48 74903.41 19991.72 66050.63 70449.04
## [393] 64008.55 70203.74 27262.51 49544.41 28357.27 66929.03 75524.78 66265.34
## [401] 55993.68 56379.30 31215.88 51015.11 46473.14 55479.62 68713.70 34191.23
## [409] 51067.54 46693.76 19345.36 66225.72 38609.20 37713.23 63764.28 41866.55
## [417] 57846.68 69428.73 60283.98 79332.33 53167.68 64564.07 60803.37 28387.42
## [425] 58849.77 65963.37 75180.20 61270.14 56759.48 46160.63 43870.51 50439.49
## [433] 28028.74 64238.71 65816.38 72684.44 38817.40 63976.44 37212.54 52691.79
## [441] 65499.93 63966.72 52400.88 49111.47 41232.89 52140.04 60641.09 74180.05
## [449] 51869.87 48852.58 59144.02 33951.63 58909.36 49850.52 28679.93 69869.66
## [457] 48347.64 45959.86 70005.51 51512.66 25598.75 49282.87 67240.25 42136.33
## [465] 62589.84 67384.31 25603.93 39616.00 28265.81 63879.72 70592.81 76408.19
## [473] 55015.08 51636.12 29359.20 71296.67 46422.76 52802.00 59243.46 35350.55
## [481] 59677.64 70225.60 65791.17 34191.13 51315.38 62790.96 66291.67 68030.18
## [489] 43974.49 49457.48 33987.27 28210.03 75535.14 49158.50 39809.69 65826.53
## [497] 61172.07 42898.21 68333.01 70232.95 63102.19 51847.26 63580.22 47575.44
## [505] 39031.89 70505.06 62161.26 61068.26 49090.51 62330.75 18819.34 62053.37
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## [1] "Cloned 5thgeneration orchestration"
## [2] "Monitored national standardization"
## [3] "Organic bottom-line service-desk"
## [4] "Triple-buffered reciprocal time-frame"
## [5] "Robust logistical utilization"
## [6] "Sharable client-driven software"
## [7] "Enhanced dedicated support"
## [8] "Reactive local challenge"
## [9] "Configurable coherent function"
## [10] "Mandatory homogeneous architecture"
## [11] "Centralized neutral neural-net"

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## [12] "Team-oriented grid-enabled Local Area Network"
## [13] "Centralized content-based focus group"
## [14] "Synergistic fresh-thinking array"
## [15] "Grass-roots coherent extranet"
## [16] "Persistent demand-driven interface"
## [17] "Customizable multi-tasking website"
## [18] "Intuitive dynamic attitude"
## [19] "Grass-roots solution-oriented conglomeration"
## [20] "Advanced 24/7 productivity"
## [21] "Object-based reciprocal knowledgebase"
## [22] "Streamlined non-volatile analyzer"
## [23] "Mandatory disintermediate utilization"
## [24] "Future-proofed methodical protocol"
## [25] "Exclusive neutral parallelism"
## [26] "Public-key foreground groupware"
## [27] "Ameliorated client-driven forecast"
## [28] "Monitored systematic hierarchy"
## [29] "Open-architected impactful productivity"
## [30] "Business-focused value-added definition"
## [31] "Programmable asymmetric data-warehouse"
## [32] "Digitized static capability"
## [33] "Digitized global capability"
## [34] "Multi-layered 4thgeneration knowledge user"
## [35] "Synchronized dedicated service-desk"
## [36] "Synchronized systemic hierarchy"
## [37] "Profound stable product"
## [38] "Reactive demand-driven capacity"
## [39] "Persevering needs-based open architecture"
## [40] "Intuitive exuding service-desk"
## [41] "Innovative user-facing extranet"
## [42] "Front-line intermediate database"
## [43] "Persevering exuding system engine"
## [44] "Balanced dynamic application"
## [45] "Reduced global support"
## [46] "Organic leadingedge secured line"
## [47] "Business-focused encompassing neural-net"
## [48] "Triple-buffered demand-driven alliance"
## [49] "Visionary maximized process improvement"
## [50] "Centralized 24/7 installation"
## [51] "Organized static focus group"
## [52] "Visionary reciprocal circuit"
## [53] "Pre-emptive value-added workforce"
## [54] "Sharable analyzing alliance"
## [55] "Team-oriented encompassing portal"
## [56] "Sharable bottom-line solution"
## [57] "Cross-group regional website"
## [58] "Organized global model"
## [59] "Upgradable asynchronous circuit"
## [60] "Phased transitional instruction set"
## [61] "Customer-focused empowering ability"
## [62] "Front-line heuristic data-warehouse"
## [63] "Stand-alone national attitude"
## [64] "Focused upward-trending core"
## [65] "Streamlined cohesive conglomeration"

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## [66] "Upgradable optimizing toolset"
## [67] "Synchronized user-facing core"
## [68] "Organized client-driven alliance"
## [69] "Ergonomic multi-state structure"
## [70] "Synergized multimedia emulation"
## [71] "Customer-focused optimizing moderator"
## [72] "Advanced full-range migration"
## [73] "De-engineered object-oriented protocol"
## [74] "Polarized clear-thinking budgetary management"
## [75] "Customizable 6thgeneration knowledge user"
## [76] "Seamless object-oriented structure"
## [77] "Seamless real-time array"
## [78] "Grass-roots impactful system engine"
## [79] "Devolved tangible approach"
## [80] "Customizable executive software"
## [81] "Progressive analyzing attitude"
## [82] "Innovative executive encoding"
## [83] "Down-sized uniform info-mediaries"
## [84] "Streamlined next generation implementation"
## [85] "Distributed tertiary system engine"
## [86] "Triple-buffered scalable groupware"
## [87] "Total 5thgeneration encoding"
## [88] "Integrated human-resource encoding"
## [89] "Phased dynamic customer loyalty"
## [90] "Open-source coherent policy"
## [91] "Down-sized modular intranet"
## [92] "Pre-emptive content-based focus group"
## [93] "Versatile 4thgeneration system engine"
## [94] "Ergonomic full-range time-frame"
## [95] "Automated directional function"
## [96] "Progressive empowering alliance"
## [97] "Versatile homogeneous capacity"
## [98] "Function-based optimizing protocol"
## [99] "Up-sized secondary software"
## [100] "Seamless holistic time-frame"
## [101] "Persevering reciprocal firmware"
## [102] "Centralized logistical secured line"
## [103] "Innovative background conglomeration"
## [104] "Switchable 3rdgeneration hub"
## [105] "Polarized 6thgeneration info-mediaries"
## [106] "Balanced heuristic approach"
## [107] "Focused 24hour implementation"
## [108] "De-engineered mobile infrastructure"
## [109] "Customer-focused upward-trending contingency"
## [110] "Operative system-worthy protocol"
## [111] "User-friendly upward-trending intranet"
## [112] "Future-proofed holistic superstructure"
## [113] "Extended systemic policy"
## [114] "Horizontal hybrid challenge"
## [115] "Virtual composite model"
## [116] "Switchable mobile framework"
## [117] "Focused intangible moderator"
## [118] "Balanced actuating moderator"
## [119] "Customer-focused transitional strategy"

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## [120] "Advanced web-enabled standardization"
## [121] "Pre-emptive executive knowledgebase"
## [122] "Self-enabling holistic process improvement"
## [123] "Horizontal client-driven hierarchy"
## [124] "Polarized dynamic throughput"
## [125] "Devolved zero administration intranet"
## [126] "User-friendly asymmetric info-mediaries"
## [127] "Cross-platform regional task-force"
## [128] "Polarized bandwidth-monitored moratorium"
## [129] "Centralized systematic knowledgebase"
## [130] "Future-proofed grid-enabled implementation"
## [131] "Down-sized well-modulated archive"
## [132] "Realigned zero tolerance emulation"
## [133] "Versatile transitional monitoring"
## [134] "Profound zero administration instruction set"
## [135] "User-centric intangible task-force"
## [136] "Enhanced system-worthy application"
## [137] "Multi-layered user-facing paradigm"
## [138] "Customer-focused 24/7 concept"
## [139] "Function-based transitional complexity"
## [140] "Progressive clear-thinking open architecture"
## [141] "Up-sized executive moderator"
## [142] "Re-contextualized optimal service-desk"
## [143] "Fully-configurable neutral open system"
## [144] "Upgradable system-worthy array"
## [145] "Ergonomic client-driven application"
## [146] "Realigned content-based leverage"
## [147] "Decentralized real-time circuit"
## [148] "Polarized modular function"
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## [3] "Davidton"             "West Terrifurt"
## [5] "South Manuel"         "Jamieberg"
## [7] "Brandonstad"          "Port Jefferybury"
## [9] "West Colin"           "Ramirezton"
## [11] "West Brandonton"      "East Theresashire"
## [13] "West Katiefurt"       "North Tara"
## [15] "West William"         "New Travistown"
## [17] "West Dylanberg"       "Pruittmouth"
## [19] "Jessicastad"          "Millertown"
## [21] "Port Jacqueline"       "Lake Nicole"
## [23] "South John"            "Pamelamouth"
## [25] "Harperborough"         "Port Danielleberg"
## [27] "West Jeremyside"       "South Cathyfurt"
## [29] "Palmerside"            "West Guybury"
## [31] "Phelpschester"         "Lake Melindamouth"
## [33] "North Richardburgh"    "Port Cassie"
## [35] "New Thomas"            "Johnstad"
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## [47] "New Sharon"            "Johnport"
## [49] "Hamiltonfort"          "West Christopher"
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## [57] "Garciaside"            "Port Sarahshire"
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## [61] "Lake Amy"              "Lake Annashire"
## [63] "Smithburgh"            "North Leonmouth"
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## [13] "Egypt"
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## [18] "Afghanistan"
## [19] "British Indian Ocean Territory (Chagos Archipelago)"
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 ## [622] "2016-06-14 19:48:34" "2016-07-15 15:43:36" "2016-03-24 05:38:01"
 ## [625] "2016-04-26 20:57:48" "2016-01-12 03:28:31" "2016-04-09 23:26:42"
 ## [628] "2016-03-28 09:15:58" "2016-06-23 11:05:01" "2016-01-24 01:53:14"
 ## [631] "2016-04-15 10:18:55" "2016-04-26 13:13:20" "2016-05-16 23:21:06"
 ## [634] "2016-01-18 02:51:13" "2016-06-20 08:34:46" "2016-07-18 04:53:22"
 ## [637] "2016-07-01 01:12:04" "2016-03-07 22:51:00" "2016-05-02 15:31:28"
 ## [640] "2016-07-23 06:18:51" "2016-06-12 03:11:04" "2016-02-15 20:41:05"
 ## [643] "2016-01-23 01:42:28" "2016-02-26 01:18:44" "2016-01-11 02:07:14"
 ## [646] "2016-04-04 13:56:14" "2016-01-14 09:27:59" "2016-04-25 03:18:45"
 ## [649] "2016-03-05 23:02:11" "2016-01-06 21:43:22" "2016-02-18 03:58:36"
 ## [652] "2016-04-16 14:15:55" "2016-02-24 06:18:11" "2016-06-29 01:19:21"
 ## [655] "2016-01-05 06:34:20" "2016-07-16 10:14:04" "2016-06-17 03:23:13"
 ## [658] "2016-06-13 11:06:40" "2016-04-05 08:18:45" "2016-04-17 18:38:14"
 ## [661] "2016-02-03 16:54:33" "2016-04-18 21:07:28" "2016-06-18 22:31:22"
 ## [664] "2016-03-12 07:18:36" "2016-01-15 01:20:05" "2016-02-12 10:39:10"
 ## [667] "2016-02-16 02:29:03" "2016-04-04 21:23:13" "2016-04-24 01:48:21"
 ## [670] "2016-05-20 00:00:48" "2016-05-15 03:10:50" "2016-01-07 23:02:43"

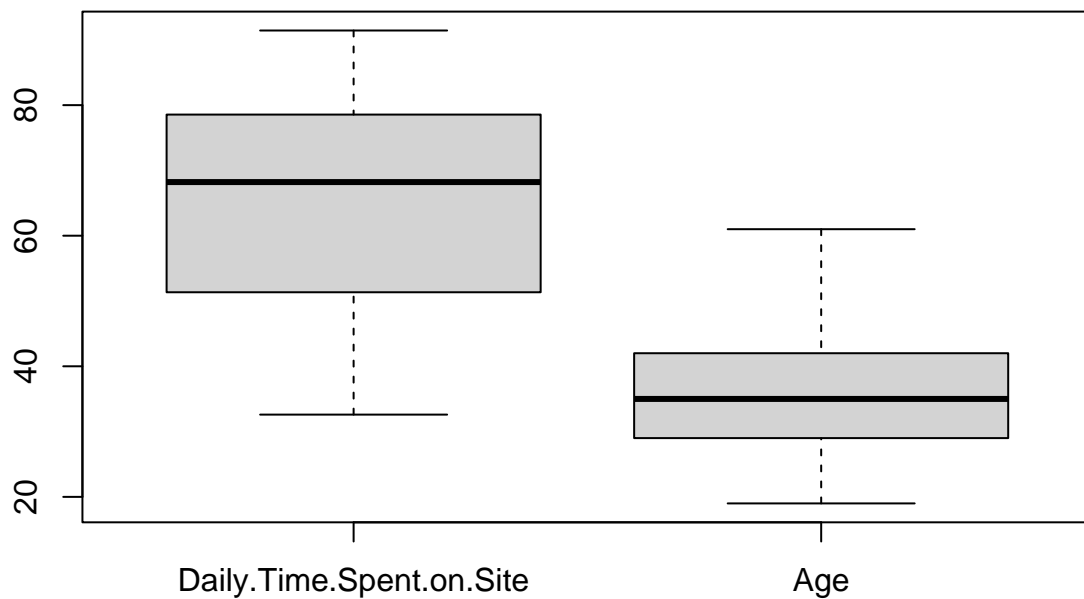
[673] "2016-07-19 12:05:58" "2016-04-04 00:02:20" "2016-06-10 04:21:57"
 ## [676] "2016-03-11 14:50:56" "2016-01-14 20:58:10" "2016-06-22 05:22:58"
 ## [679] "2016-03-19 08:00:58" "2016-04-15 15:07:17" "2016-03-28 02:29:19"
 ## [682] "2016-01-22 15:03:25" "2016-06-25 17:33:35" "2016-03-04 14:33:38"
 ## [685] "2016-06-29 02:48:44" "2016-06-18 01:42:37" "2016-01-31 09:57:34"
 ## [688] "2016-05-22 15:17:25" "2016-07-22 11:05:10" "2016-07-13 14:05:22"
 ## [691] "2016-02-11 11:50:26" "2016-03-16 20:33:10" "2016-04-25 19:31:39"
 ## [694] "2016-07-14 22:43:29" "2016-05-30 08:02:35" "2016-02-14 11:36:08"
 ## [697] "2016-01-23 21:15:57" "2016-07-18 02:51:19" "2016-02-10 08:21:13"
 ## [700] "2016-01-04 06:37:15" "2016-06-05 21:38:22" "2016-06-01 03:17:50"
 ## [703] "2016-03-06 06:51:23" "2016-02-26 19:35:54" "2016-07-13 14:30:14"
 ## [706] "2016-06-29 07:20:46" "2016-03-15 06:54:21" "2016-06-11 06:47:55"
 ## [709] "2016-07-17 13:22:43" "2016-02-14 14:38:01" "2016-05-04 05:01:37"
 ## [712] "2016-05-20 12:17:28" "2016-01-26 02:47:17" "2016-07-07 18:07:19"
 ## [715] "2016-01-11 12:46:31" "2016-05-12 12:11:12" "2016-02-28 23:21:22"
 ## [718] "2016-05-03 16:02:50" "2016-03-15 20:19:20" "2016-07-23 05:21:39"
 ## [721] "2016-03-11 10:01:23" "2016-02-11 20:45:46" "2016-07-06 23:09:07"
 ## [724] "2016-03-22 19:14:47" "2016-05-26 13:28:36" "2016-06-18 19:10:14"
 ## [727] "2016-03-20 07:12:52" "2016-06-03 07:00:36" "2016-02-03 15:15:42"
 ## [730] "2016-05-03 16:55:02" "2016-06-20 02:25:12" "2016-07-10 19:15:52"
 ## [733] "2016-01-04 04:00:35" "2016-04-20 16:49:15" "2016-01-23 13:14:18"
 ## [736] "2016-01-04 22:27:25" "2016-04-08 22:40:55" "2016-01-05 11:53:17"
 ## [739] "2016-03-17 22:24:02" "2016-06-29 04:23:10" "2016-05-25 19:45:16"
 ## [742] "2016-06-17 23:19:38" "2016-04-24 07:20:16" "2016-03-18 13:00:12"
 ## [745] "2016-04-28 21:58:25" "2016-02-12 08:46:15" "2016-07-11 13:23:37"
 ## [748] "2016-01-29 00:45:19" "2016-01-05 16:26:44" "2016-06-20 08:22:09"
 ## [751] "2016-02-06 17:48:28" "2016-06-22 17:19:09" "2016-04-16 05:24:33"
 ## [754] "2016-01-17 05:07:11" "2016-07-08 22:30:10" "2016-03-11 00:05:48"
 ## [757] "2016-06-10 00:35:15" "2016-01-04 00:44:57" "2016-01-01 15:14:24"
 ## [760] "2016-07-10 17:24:51" "2016-03-27 19:50:11" "2016-04-29 13:38:19"
 ## [763] "2016-01-08 18:13:43" "2016-06-05 07:54:30" "2016-06-29 10:50:45"
 ## [766] "2016-04-24 13:46:10" "2016-02-14 04:14:13" "2016-06-15 05:43:02"
 ## [769] "2016-07-06 12:04:29" "2016-03-31 13:54:51" "2016-06-21 00:52:47"
 ## [772] "2016-05-27 05:23:26" "2016-01-17 18:45:55" "2016-04-07 20:34:42"
 ## [775] "2016-05-02 18:37:01" "2016-06-04 17:24:07" "2016-04-07 18:52:57"
 ## [778] "2016-06-10 22:21:10" "2016-05-19 06:37:38" "2016-03-28 23:01:24"
 ## [781] "2016-01-21 22:51:34" "2016-03-12 06:05:12" "2016-06-04 09:13:29"
 ## [784] "2016-05-24 10:16:38" "2016-03-25 06:36:53" "2016-04-22 00:28:18"
 ## [787] "2016-03-22 04:13:35" "2016-01-14 08:27:04" "2016-04-14 21:37:49"
 ## [790] "2016-05-31 17:50:15" "2016-03-17 06:25:47" "2016-04-13 07:07:36"
 ## [793] "2016-02-03 22:11:13" "2016-02-02 19:59:17" "2016-04-07 20:38:02"
 ## [796] "2016-03-15 19:35:19" "2016-03-11 12:39:19" "2016-05-17 18:06:46"
 ## [799] "2016-02-28 23:10:32" "2016-03-02 06:35:08" "2016-02-27 08:52:50"
 ## [802] "2016-03-14 04:34:35" "2016-03-10 15:07:44" "2016-05-01 08:27:12"
 ## [805] "2016-06-12 11:17:25" "2016-05-28 12:20:15" "2016-03-18 09:08:39"
 ## [808] "2016-05-26 06:03:57" "2016-07-06 03:40:17" "2016-04-29 14:10:00"
 ## [811] "2016-03-05 20:53:19" "2016-05-30 08:35:54" "2016-04-10 06:32:11"
 ## [814] "2016-01-20 02:31:36" "2016-07-20 21:53:42" "2016-01-17 04:12:30"
 ## [817] "2016-02-24 07:13:00" "2016-03-26 19:37:46" "2016-06-04 09:25:27"
 ## [820] "2016-04-22 07:48:33" "2016-03-31 08:53:43" "2016-04-16 08:36:08"
 ## [823] "2016-05-12 20:57:10" "2016-05-07 21:32:51" "2016-06-25 00:33:23"
 ## [826] "2016-03-23 05:27:35" "2016-03-04 13:47:47" "2016-06-14 12:08:10"
 ## [829] "2016-05-11 19:13:42" "2016-01-21 23:33:22" "2016-01-15 19:45:33"
 ## [832] "2016-04-23 09:42:08" "2016-05-23 08:06:24" "2016-02-27 15:04:52"

[835] "2016-02-23 17:37:46" "2016-03-17 22:59:46" "2016-02-28 03:34:35"
 ## [838] "2016-03-15 14:33:12" "2016-03-03 20:20:32" "2016-04-06 14:16:52"
 ## [841] "2016-05-01 09:23:25" "2016-05-30 08:02:27" "2016-04-04 11:39:51"
 ## [844] "2016-04-06 23:10:40" "2016-04-26 21:45:50" "2016-05-25 00:34:59"
 ## [847] "2016-02-11 16:45:41" "2016-01-30 00:05:37" "2016-07-12 10:56:21"
 ## [850] "2016-04-23 03:46:34" "2016-04-16 10:36:49" "2016-03-11 13:07:30"
 ## [853] "2016-03-02 15:39:02" "2016-07-13 21:31:14" "2016-05-29 18:12:00"
 ## [856] "2016-05-10 17:13:47" "2016-05-07 08:39:47" "2016-01-17 13:27:13"
 ## [859] "2016-03-09 06:22:03" "2016-04-05 18:02:49" "2016-04-01 07:37:18"
 ## [862] "2016-02-15 16:18:49" "2016-03-08 05:12:57" "2016-02-09 23:38:30"
 ## [865] "2016-06-17 09:38:22" "2016-06-01 12:27:17" "2016-02-26 23:44:44"
 ## [868] "2016-03-11 09:58:32" "2016-04-28 02:55:10" "2016-04-12 04:22:42"
 ## [871] "2016-02-10 20:43:38" "2016-05-01 23:21:53" "2016-03-24 17:48:31"
 ## [874] "2016-04-22 19:45:19" "2016-03-09 12:10:08" "2016-03-30 05:29:38"
 ## [877] "2016-01-24 13:41:38" "2016-07-15 09:42:19" "2016-06-07 05:41:16"
 ## [880] "2016-05-31 23:32:00" "2016-05-14 14:49:05" "2016-01-10 20:18:21"
 ## [883] "2016-02-21 16:57:59" "2016-05-23 00:32:54" "2016-07-21 20:30:06"
 ## [886] "2016-05-15 18:44:50" "2016-06-30 00:43:40" "2016-02-24 06:17:18"
 ## [889] "2016-05-30 21:22:22" "2016-06-02 04:14:37" "2016-04-18 07:00:38"
 ## [892] "2016-02-29 18:06:21" "2016-05-27 12:45:37" "2016-01-12 21:17:15"
 ## [895] "2016-01-27 17:08:19" "2016-06-10 03:56:41" "2016-04-09 09:26:39"
 ## [898] "2016-02-26 06:00:16" "2016-02-21 23:07:11" "2016-04-29 14:08:26"
 ## [901] "2016-02-11 17:02:07" "2016-07-22 07:44:43" "2016-06-26 02:34:15"
 ## [904] "2016-05-14 23:08:14" "2016-05-24 10:04:39" "2016-02-16 12:05:45"
 ## [907] "2016-03-20 02:44:13" "2016-01-31 05:12:44" "2016-04-01 05:17:28"
 ## [910] "2016-02-25 16:33:24" "2016-03-21 11:02:49" "2016-02-12 05:20:19"
 ## [913] "2016-06-01 16:10:30" "2016-06-16 03:17:45" "2016-03-26 15:28:07"
 ## [916] "2016-02-16 07:37:28" "2016-02-28 09:31:31" "2016-05-18 01:00:52"
 ## [919] "2016-02-21 13:11:08" "2016-01-05 12:59:07" "2016-05-18 00:07:43"
 ## [922] "2016-03-06 23:26:44" "2016-05-19 04:23:41" "2016-04-29 20:40:21"
 ## [925] "2016-05-03 01:09:01" "2016-06-27 21:51:47" "2016-02-08 07:33:22"
 ## [928] "2016-02-22 07:04:05" "2016-03-21 08:13:24" "2016-05-31 00:58:37"
 ## [931] "2016-01-01 05:31:22" "2016-05-27 08:53:51" "2016-05-09 07:13:27"
 ## [934] "2016-06-27 01:56:36" "2016-06-03 04:51:46" "2016-02-24 00:44:44"
 ## [937] "2016-03-05 12:03:41" "2016-01-15 22:49:45" "2016-02-12 03:39:09"
 ## [940] "2016-02-19 20:49:27" "2016-03-12 02:48:18" "2016-07-23 04:04:42"
 ## [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"

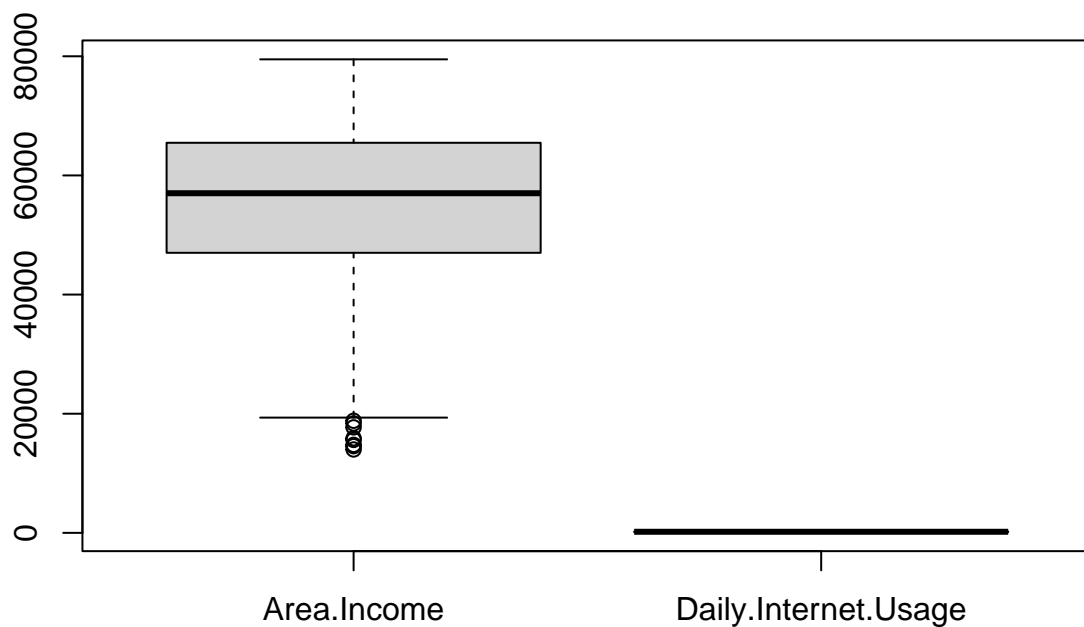

```
## [997] "2016-04-22 02:07:01" "2016-02-01 17:24:57" "2016-03-24 02:35:54"
## [1000] "2016-06-03 21:43:21"
##
## $Clicked.on.Ad
## [1] 0 1
```

We have no noticable anomalies when scheming the unique values

```
# Check for outliers in "Daily Time Spent on Site" and "Age"
boxplot(crypto[,1:2])
```



```
# Check for outliers in "Area Income"and"Daily Internet Usage"
boxplot(crypto[,3:4])
```



There are outliers in Area income, this makes sense because different people have different income which in turn affect area income

```
# Conver male and clicked on ad to factor datatype because they
# represent whether someone is male or not and whether they clicked on the ad or not
crypto$"Male" <- as.factor(crypto$"Male")
crypto$"Clicked.on.Ad" <- as.factor(crypto$"Clicked.on.Ad")
```

```
# Confirm changes made
is.factor(crypto$"Male")
```

```
## [1] TRUE
```

```
is.factor(crypto$"Clicked.on.Ad")
```

```
## [1] TRUE
```

```
# Time stamp is in character datatype when it should be in date
typeof(crypto$Timestamp)
```

```
## [1] "character"
```

```
# Convert timestamp from character to date datatype
crypto$Timestamp <- as.Date(crypto$Timestamp)
typeof(crypto$Timestamp)
```

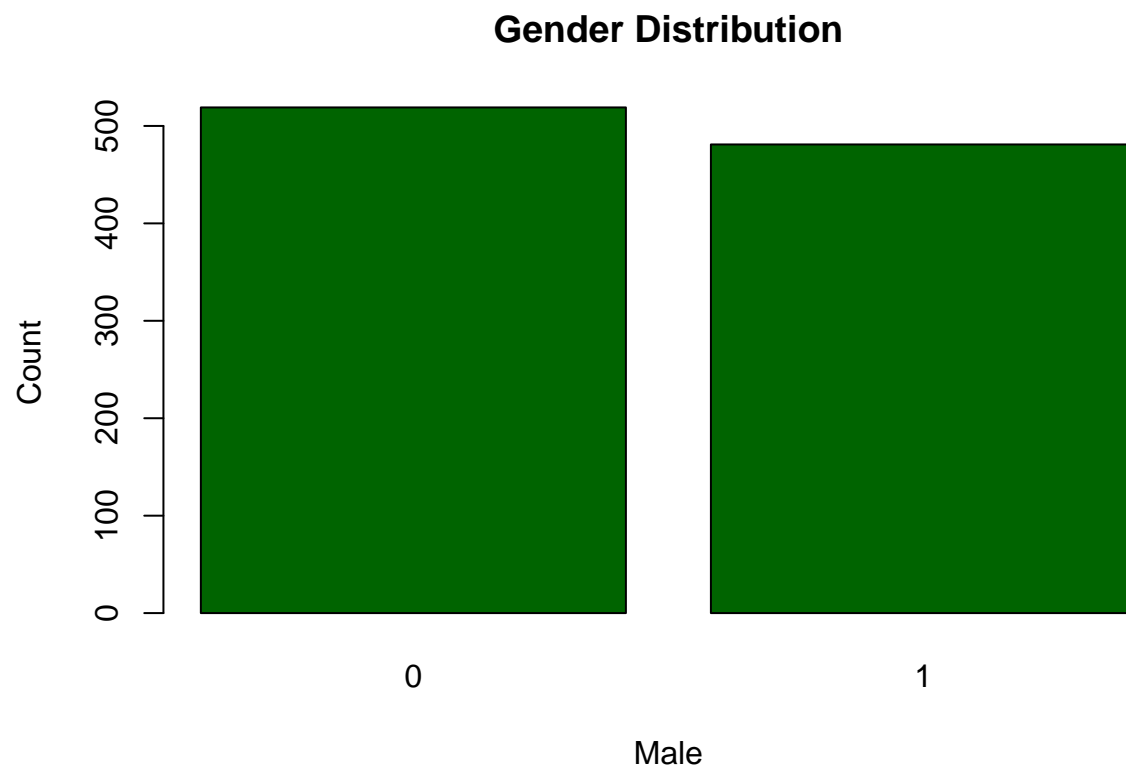
```
## [1] "double"
```

```
glimpse(crypto)
```

```
## 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 <fct> 0, 1, 0, 1, 0, 1, 0, 1, 1, 1, 0, 1, 1, 0, 0, ~
## $ Country <chr> "Tunisia", "Nauru", "San Marino", "Italy", "I~
## $ Timestamp <date> 2016-03-27, 2016-04-04, 2016-03-13, 2016-01-~
## $ Clicked.on.Ad <fct> 0, 0, 0, 0, 0, 0, 0, 1, 0, 0, 1, 0, 1, 0, 1, ~
```

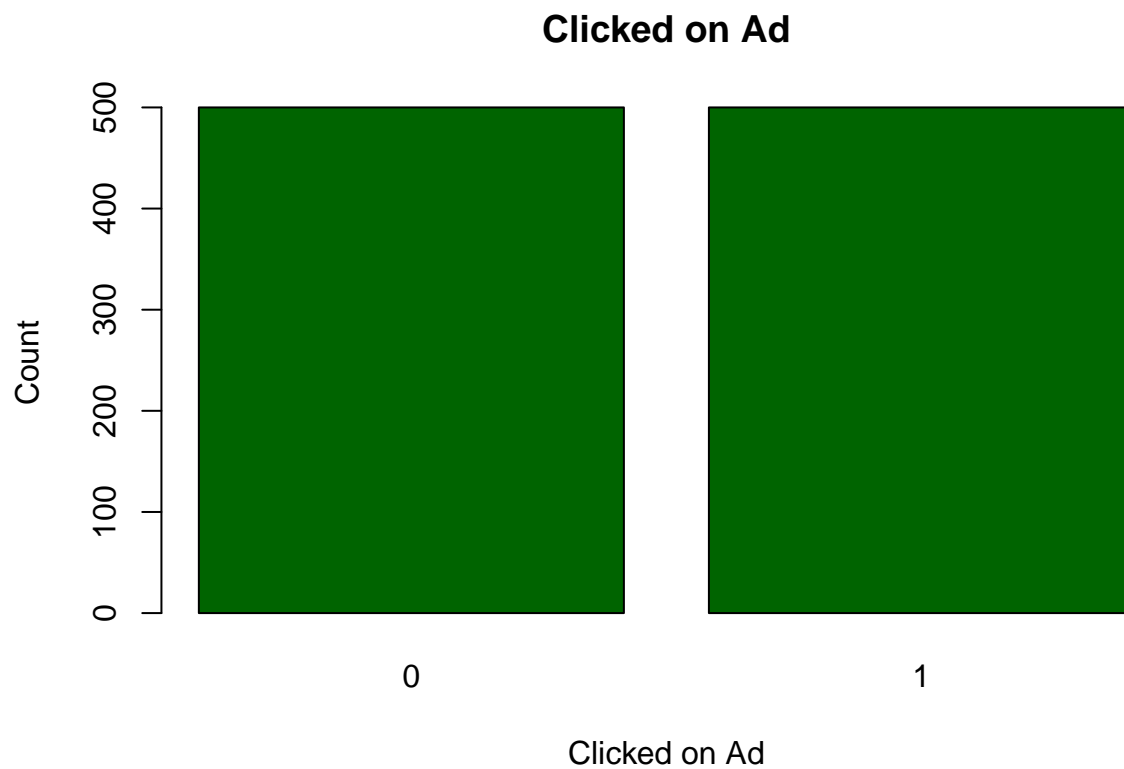
Univariate analysis

```
# Bar chart on gender
plot(factor(crypto$Male), xlab = "Male", ylab = "Count",
      main = "Gender Distribution", col = "darkgreen")
```



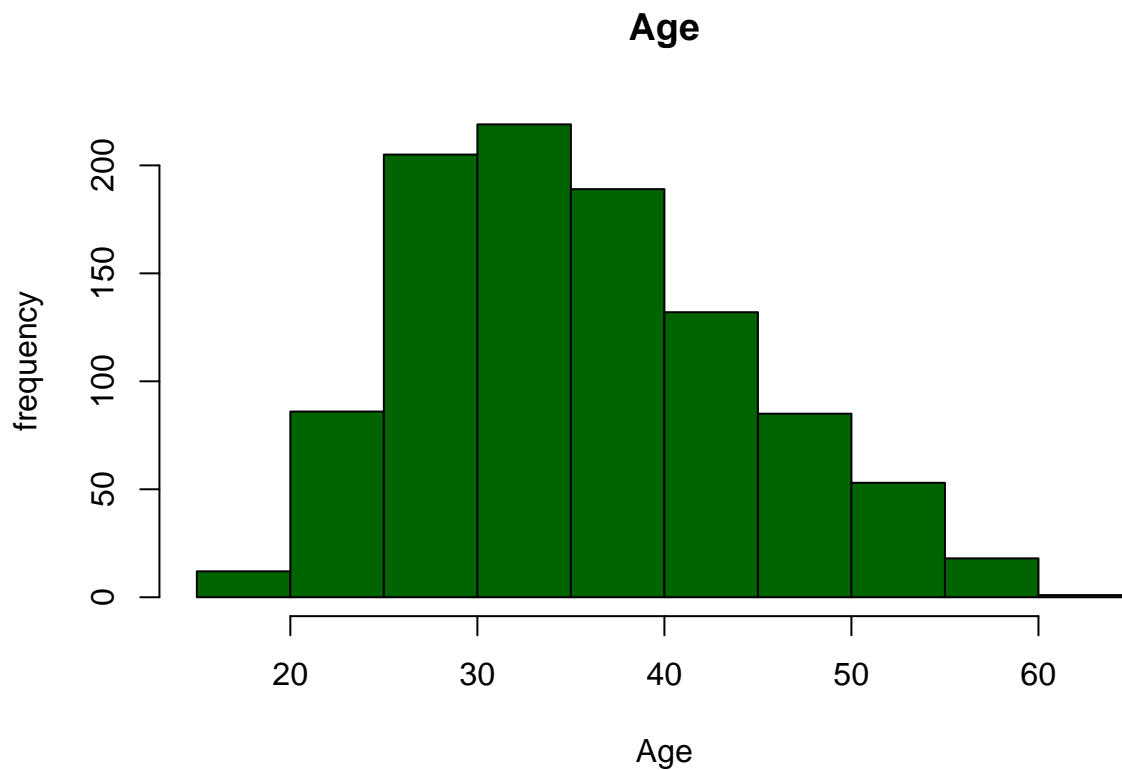
Most audience members are not male

```
# Bar chart on Clicked on ad  
plot(factor(crypto$"Clicked.on.Ad"), xlab = "Clicked on Ad",  
      ylab = "Count", main = "Clicked on Ad", col = "darkgreen")
```



There's an equal number of people who clicked and did not click on the ad

```
# Distribution of age  
hist(crypto$"Age" , xlab = "Age", ylab = "frequency",  
      main = "Age", col = "darkgreen")
```

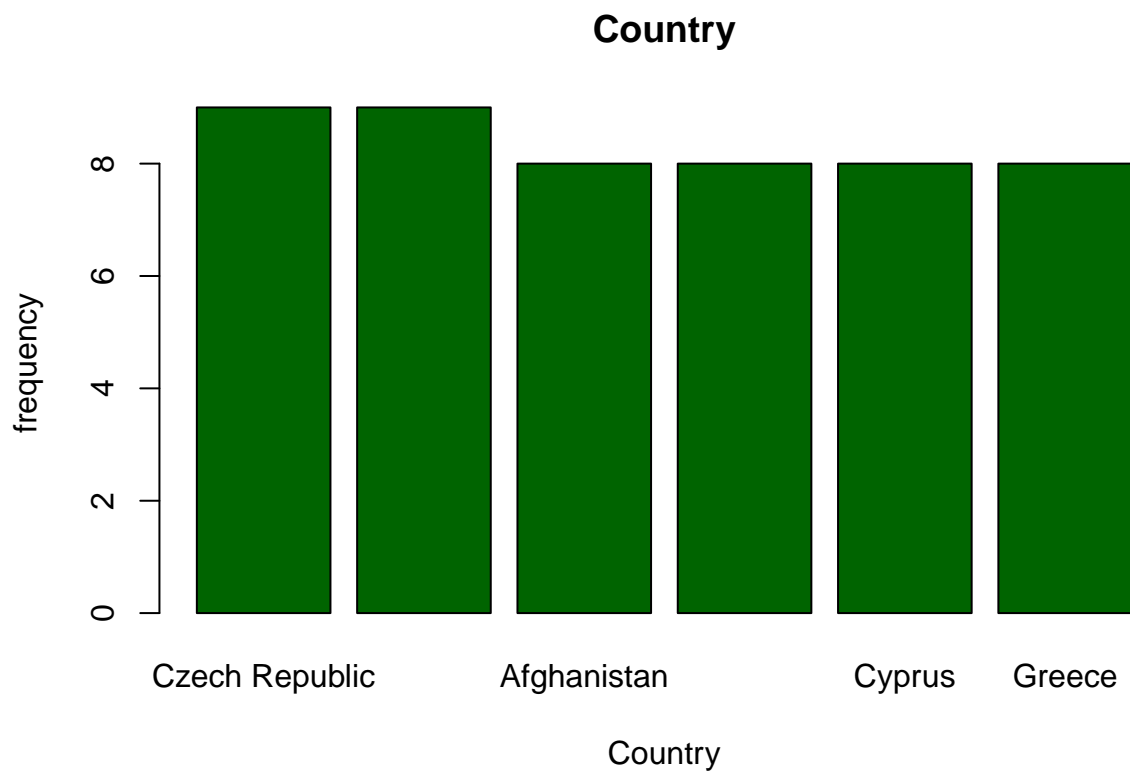


Most people are between the ages of 30 and 35

```
# Bar chart on Country
freq_country <- table(crypto$"Country")
head(sort(freq_country , decreasing = T))
```

```
##
## Czech Republic      France  Afghanistan  Australia  Cyprus
##           9           9           8           8           8
##      Greece
##           8
```

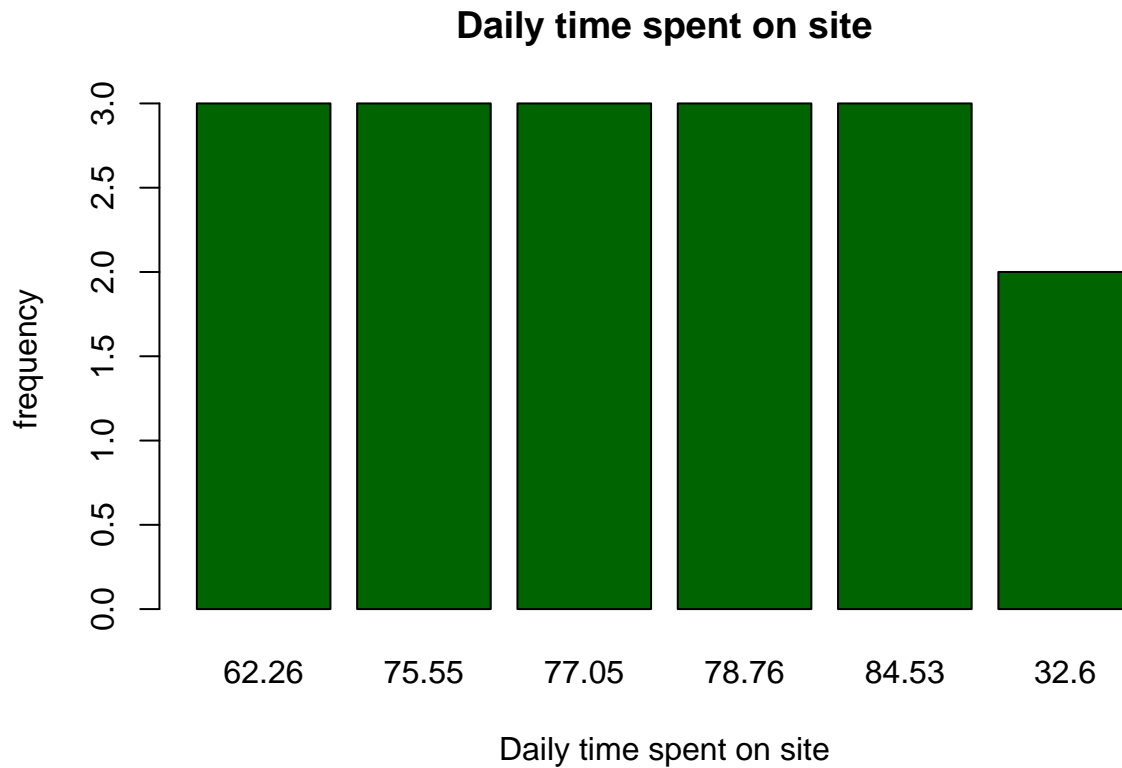
```
barplot(head(sort(freq_country , decreasing = T), n=6), xlab = "Country",
        ylab = "frequency", main = "Country", col = "darkgreen")
```



Most people are from Czech Republic and France

```
# Bar chart on daily time spent on site
freq_dtime <- table(crypto$"Daily.Time.Spent.on.Site")

barplot(head(sort(freq_dtime , decreasing = T)),
        xlab = "Daily time spent on site", ylab = "frequency",
        main = "Daily time spent on site", col = "darkgreen")
```



The Most daily time spent on the site is 62.26,75.55,77.05,78.76,84.53

```
# Frequency table on Daily internet usage
freq_int <- table(crypto$Daily.Internet.Usage)
head(sort(freq_int, decreasing = T), n= 50)
```

```
##
## 113.53 115.91 117.3 119.3 120.06 125.45 132.38 135.24 136.18 138.35 158.22
##      2      2      2      2      2      2      2      2      2      2      2
## 161.16 162.44 164.25 167.22 169.4 178.75 182.65 190.95 194.23 201.15 211.87
##      2      2      2      2      2      2      2      2      2      2      2
## 214.42 215.18 219.72 222.11 223.16 228.81 230.36 234.75 235.28 236.96 247.05
##      2      2      2      2      2      2      2      2      2      2      2
## 256.4 104.78 105 105.04 105.15 105.22 105.63 105.69 105.71 105.86 105.94
##      2      1      1      1      1      1      1      1      1      1      1
## 106.04 106.86 106.96 107.19 107.56 107.92
##      1      1      1      1      1      1
```

The most daily internet usage is 113.53 115.91 117.3 119.3 120.06 125.45 132.38 135.24 136.18 138.35 158.22 161.16 162.44 164.25 167.22 169.4 178.75 182.65 190.95 194.23 201.15 211.87 214.42 215.18 219.72 222.11 223.16 228.81 230.36 234.75 235.28 236.96 247.05 256.4

```
# Frequency table on City
freq_city <- table(crypto$City)
head(sort(freq_city, decreasing = T))
```



```
##
##      Lisamouth      Williamsport Benjaminchester      East John      East Timothy
##          3              3              2              2              2
##      Johnstad
##          2
```

Most people are from Lisamouth and Williamsport

```
# Display the mean, median, mode, max , min and quantiles of our variables
summary(crypto)
```

```
##  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
```

```
# Check the skewness of our variables
library(moments)

print("skewness:")
```

```
## [1] "skewness:"
```

```
skewness(crypto[,1:4])
```

```
##  Daily.Time.Spent.on.Site      Age      Area.Income
##          -0.37120261      0.47842268      -0.64939670
##  Daily.Internet.Usage
##          -0.03348703
```

Daily time spent on site, area income and daily internet usage are negatively skewed Age is fairly symmetrical

```
# Check the skewness of our variables
print("Kurtosis:")
```

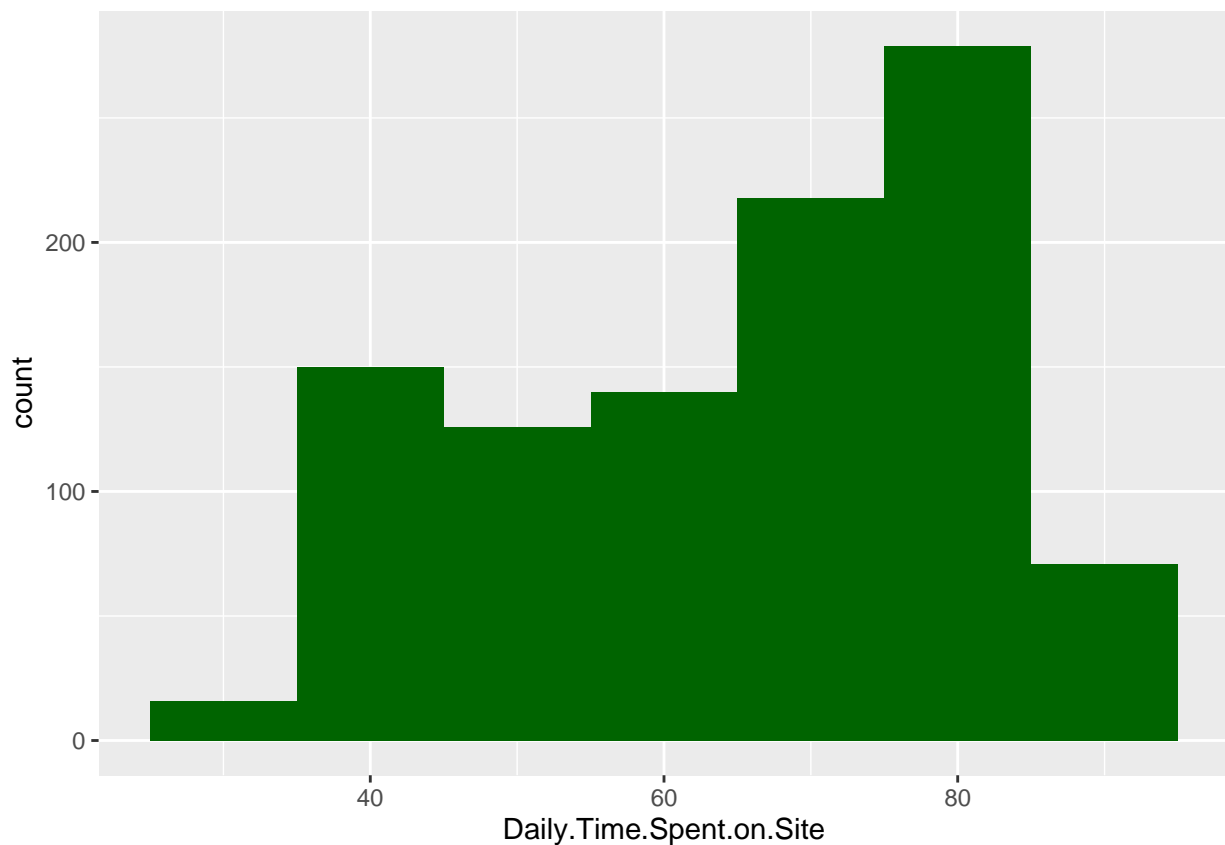
```
## [1] "Kurtosis:"
```

```
kurtosis(crypto[,1:4])
```

```
## Daily.Time.Spent.on.Site      Age      Area.Income
##           1.903942           2.595482           2.894694
##   Daily.Internet.Usage
##           1.727701
```

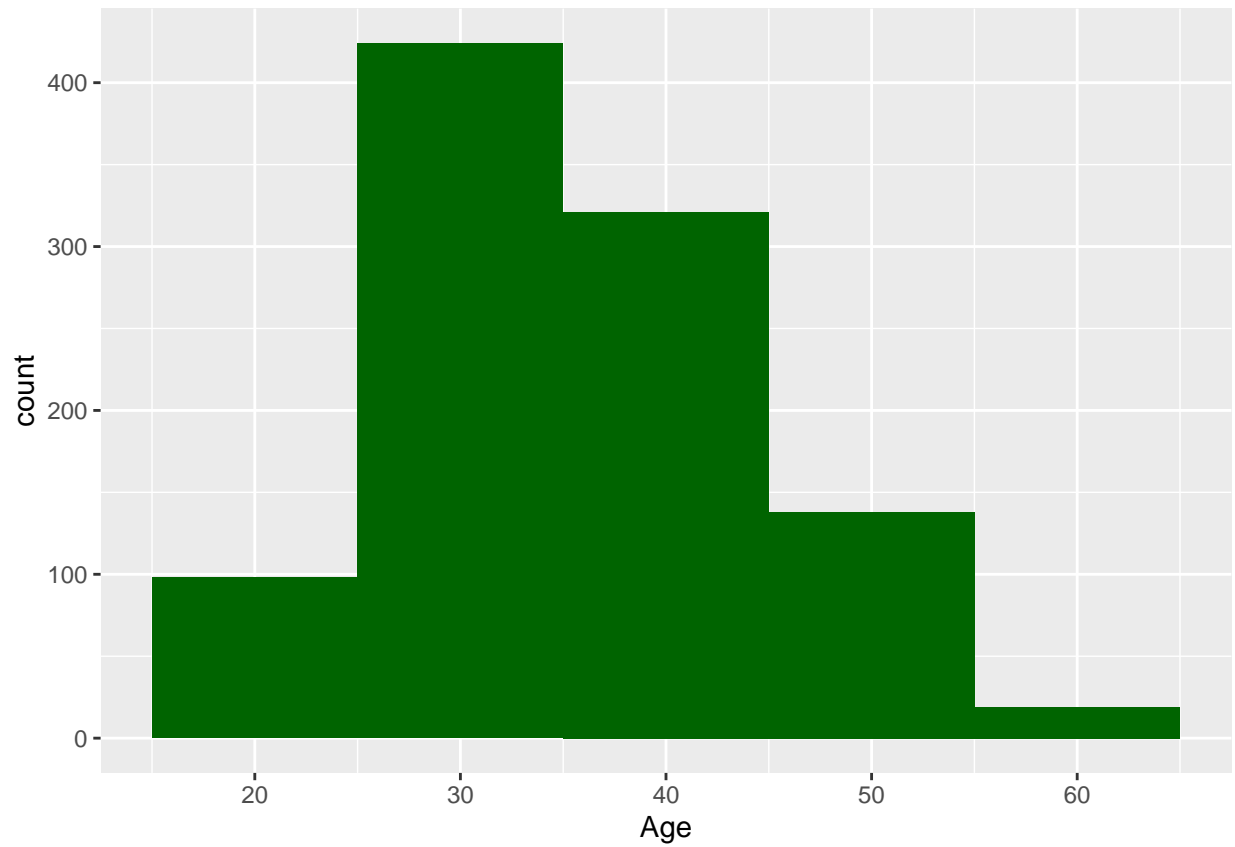
Our dataset has lighter tails

```
# Histogram of Daily.Time.Spent.on.Site
ggplot(data = crypto , aes(`Daily.Time.Spent.on.Site`)) +
  geom_histogram(binwidth = 10,fill="darkgreen")
```

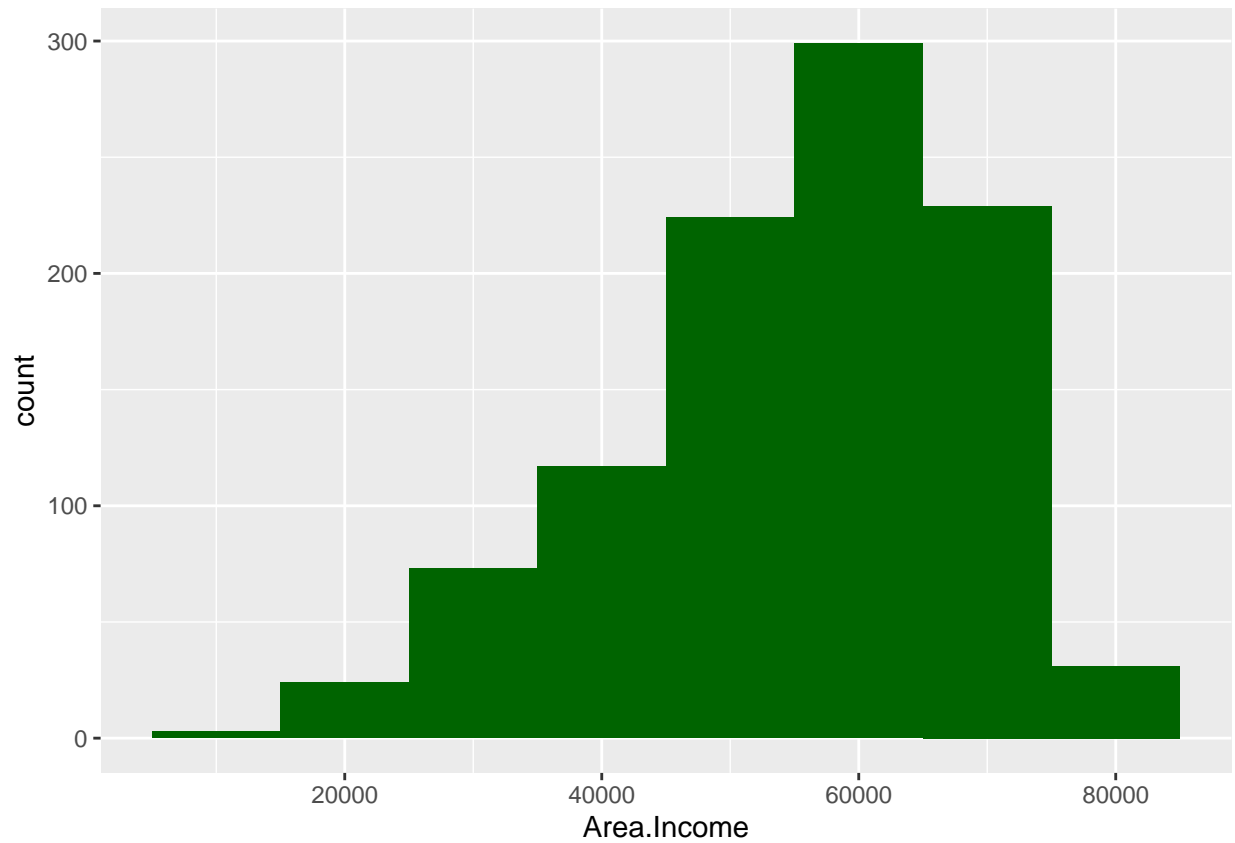


Daily time spent on site is skewed to the left

```
# Histogram of Age
ggplot(data = crypto , aes(`Age`)) +
  geom_histogram(fill="darkgreen", binwidth = 10)
```

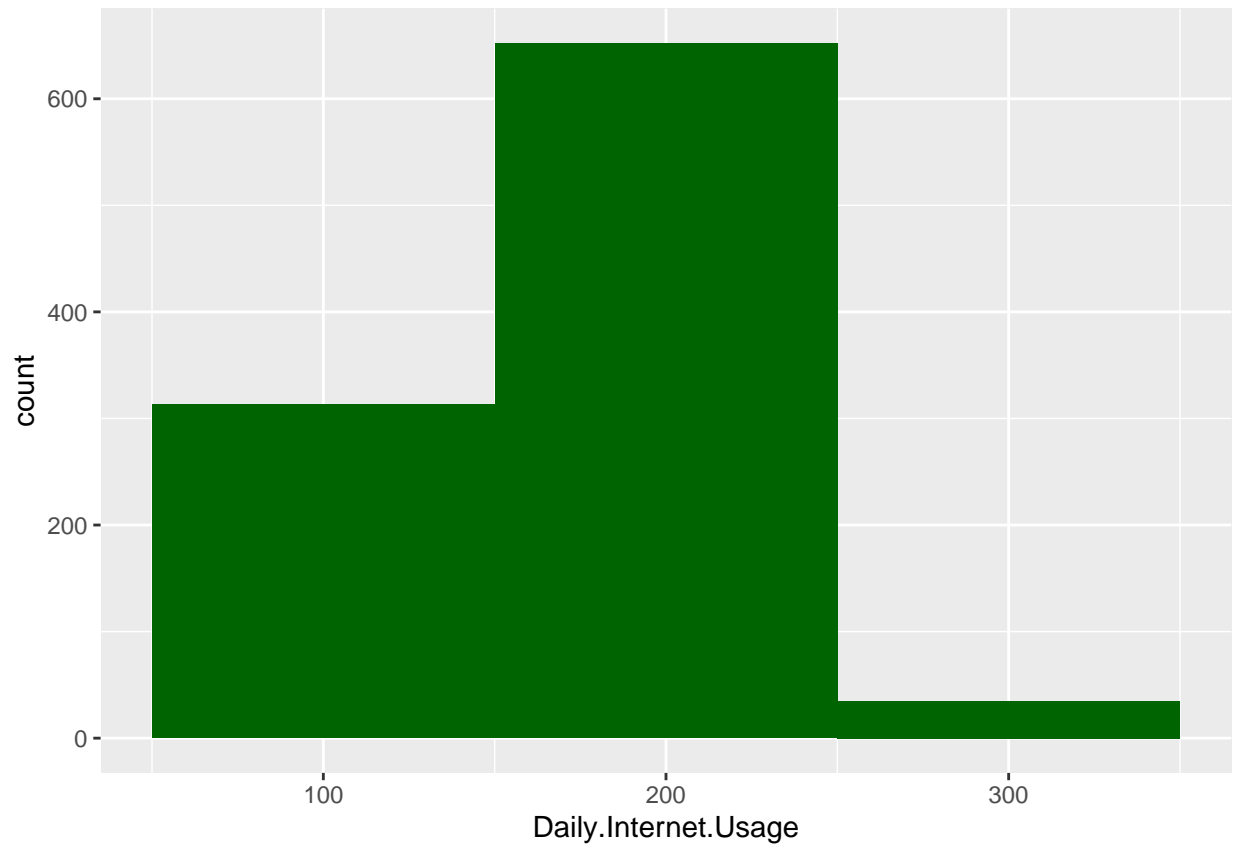


```
# Histogram of Area income  
ggplot(data = crypto , aes(`Area.Income`)) + geom_histogram(fill="darkgreen",binwidth = 10000)
```



Area income is skewed to the left

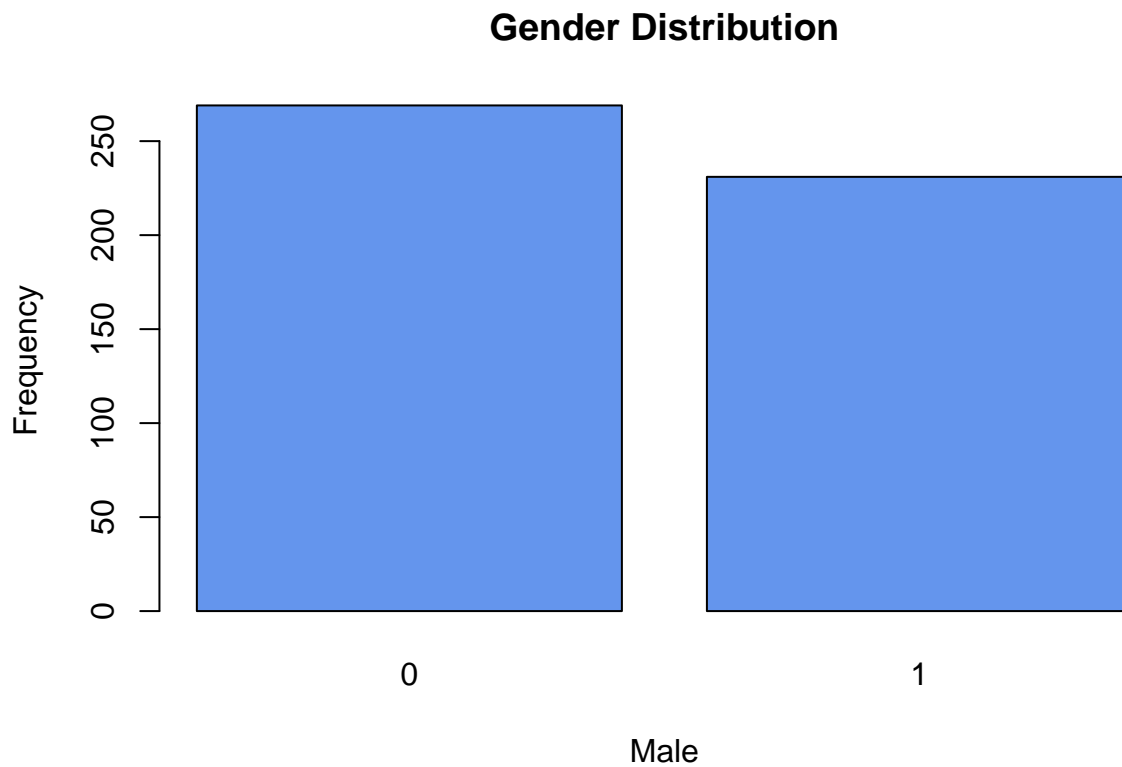
```
# Histogram of Daily internet usage  
ggplot(data = crypto , aes(`Daily.Internet.Usage`)) +  
  geom_histogram(fill="darkgreen",binwidth = 100)
```



Bivariate analysis

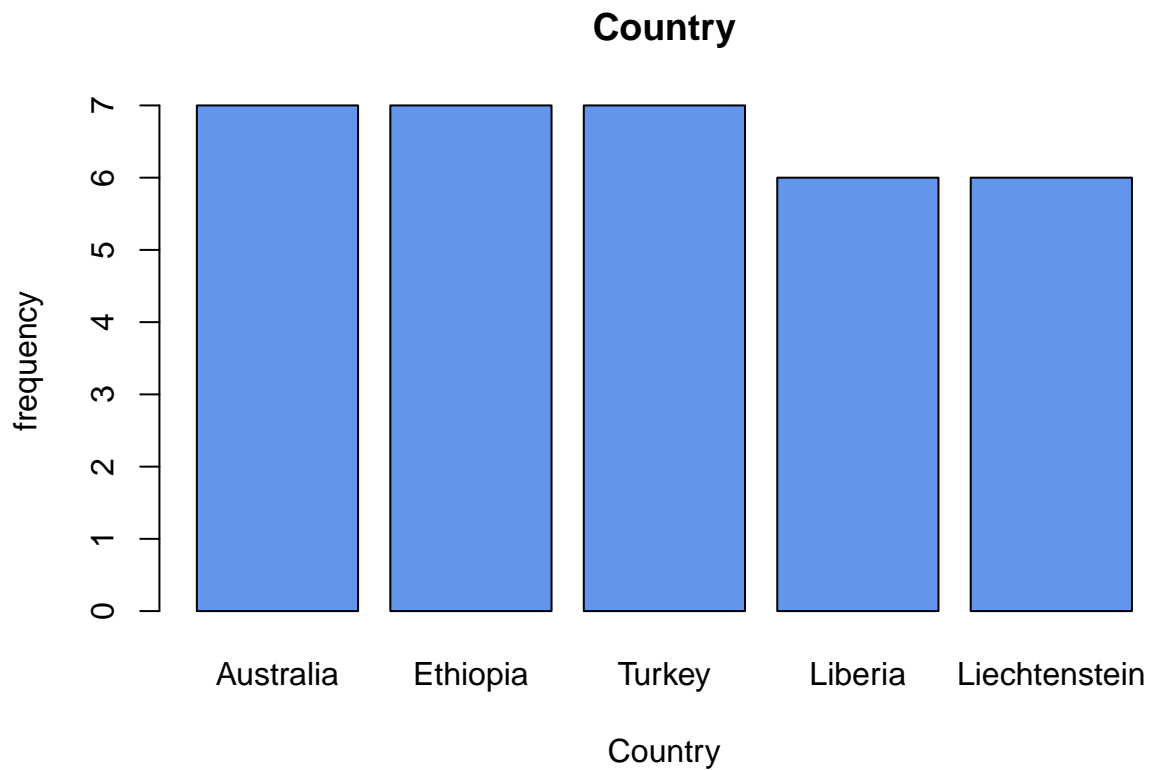
```
# Filter out the dataset to only records where the ad was clicked  
crypto_df <- crypto[crypto$Clicked.on.Ad == 1,]
```

```
# Gender that clicked the ad the most  
plot(factor(crypto_df$Male), xlab = "Male", ylab = "Frequency",  
      main = "Gender Distribution", col = "cornflowerblue")
```



Most people who clicked on the ad are not male

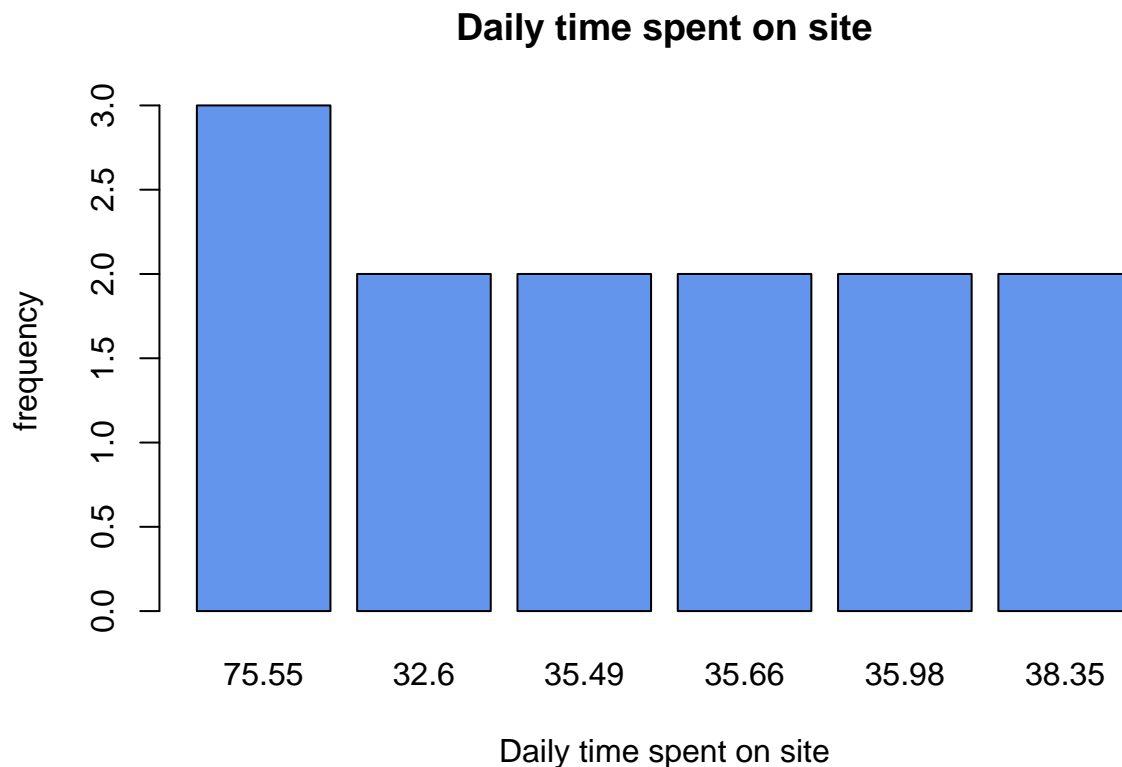
```
# Countries that clicked the ad the most
freq_country_df <- table(crypto_df$Country)
barplot(head(sort(freq_country_df , decreasing = T),n=5),
        xlab = "Country", ylab = "frequency",
        main = "Country", col = "cornflowerblue" )
```



Most people who clicked on the ad were from Australia, Ethiopia and Turkey

```
# Daily time spent on the site for people who clicked the ad
freq_dtime_df <- table(crypto_df$"Daily.Time.Spent.on.Site")

barplot(head(sort(freq_dtime_df , decreasing = T)),
        xlab = "Daily time spent on site",
        ylab = "frequency", main = "Daily time spent on site",
        col = "cornflowerblue")
```



Most people who clicked on the ad daily time spent on the site is 75.55

```
# Frequency table on Daily internet usage of people who clicked the ad
freq_int_df <- table(crypto_df$Daily.Internet.Usage)
head(sort(freq_int_df, decreasing = T), n=15)
```

```
##
## 113.53 115.91 117.3 119.3 120.06 125.45 132.38 135.24 136.18 138.35 158.22
##      2      2      2      2      2      2      2      2      2      2      2
## 161.16 167.22 169.4 104.78
##      2      2      2      1
```

Most people who clicked on the ad daily internet usage is 113.53 115.91 117.3 119.3 120.06 125.45 132.38 135.24 136.18 138.35 158.22 161.16 167.22 169.4

```
# Frequency table on the age of people who clicked the ad
freq_age_df <- table(crypto_df$Age)
head(sort(freq_age_df, decreasing = T))
```

```
##
## 45 36 38 41 42 40
## 27 25 25 22 20 19
```

Most people who clicked the ad were 45 , 36 and 38 years old


```
# Frequency table on City with the most people who clicked the ad
freq_city_df <- table(crypto_df$City)
head(sort(freq_city_df, decreasing = T),n=15)
```

```
##
##      Lake David      Lake James      Lisamouth  Michelleside  Millerbury
##           2           2           2           2           2
##      Robertfurt    South Lisa    West Amanda  West Shannon  Williamsport
##           2           2           2           2           2
##      Adamsbury      Adamside  Alexanderfurt  Alexanderview  Aliciatown
##           1           1           1           1           1
```

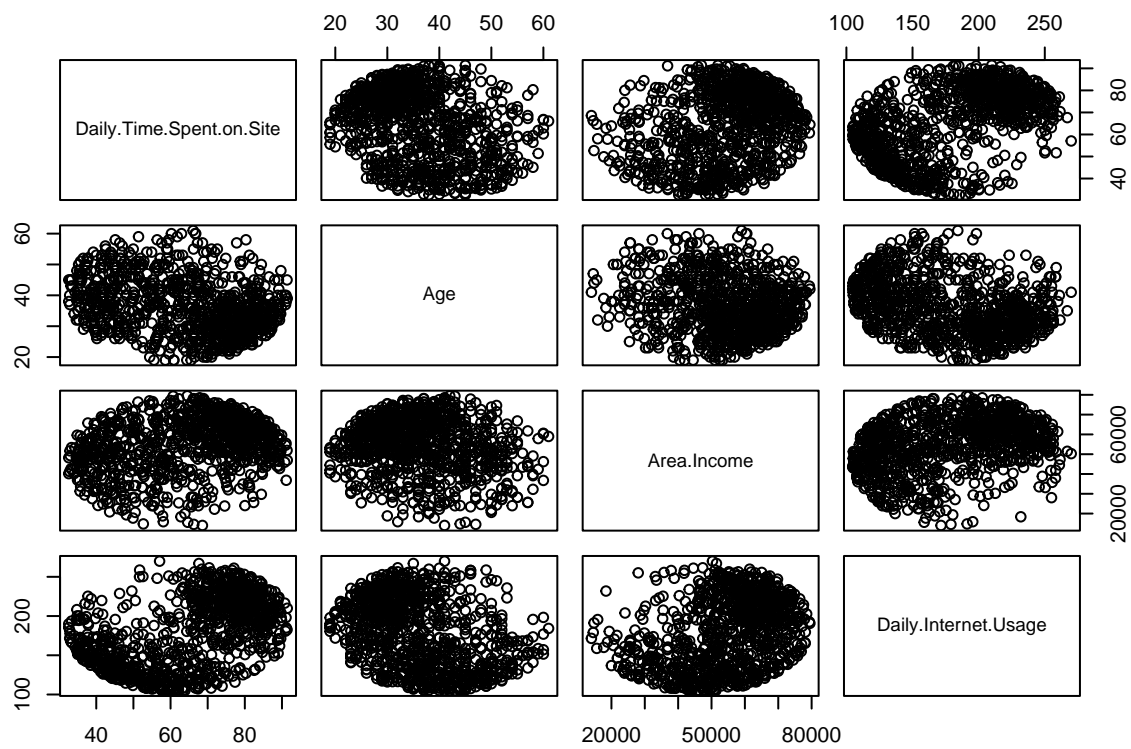
Most people who clicked on the ad were from Lake David Lake James Lisamouth Michelleside Millerbury Robertfurt South Lisa West Amanda West Shannon Williamsport

```
# Plot a correlation matrix
cor(crypto[,1:4])
```

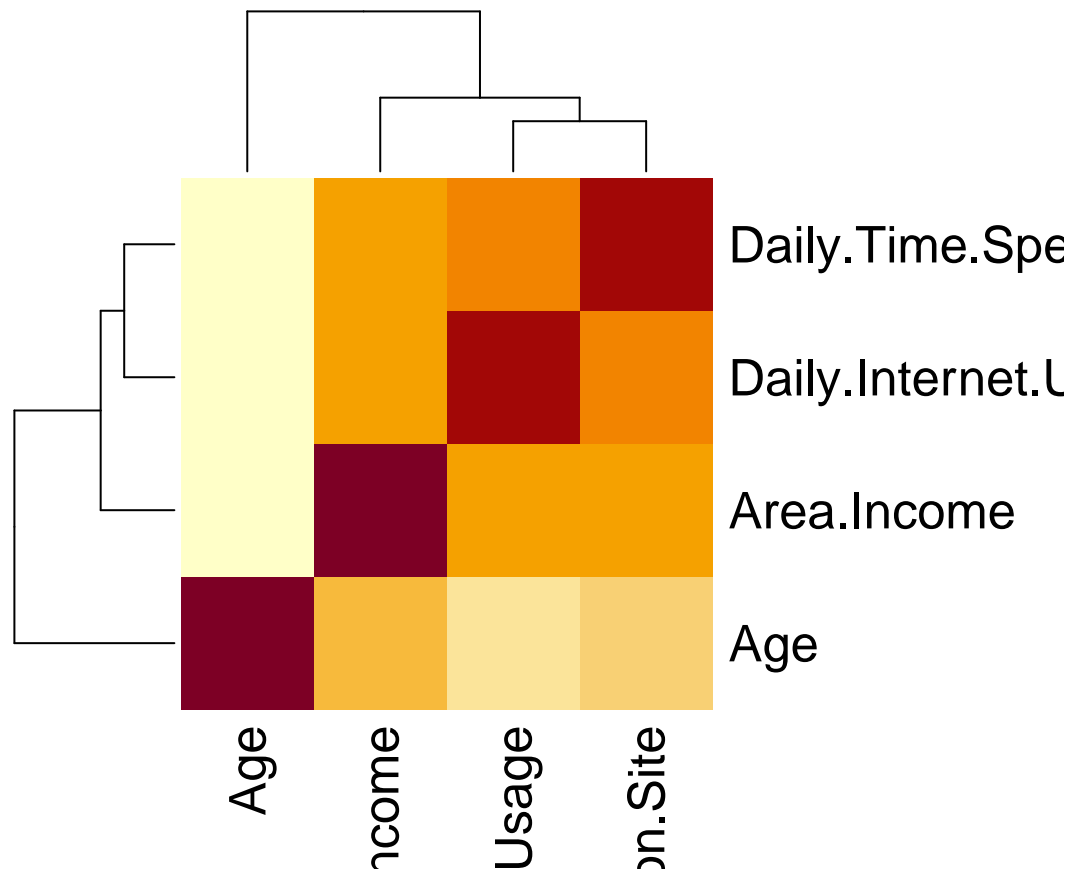
```
##              Daily.Time.Spent.on.Site      Age Area.Income
## Daily.Time.Spent.on.Site      1.0000000 -0.3315133  0.3109544
## Age              -0.3315133  1.0000000  -0.1826050
## Area.Income      0.3109544 -0.1826050  1.0000000
## Daily.Internet.Usage      0.5186585 -0.3672086  0.3374955
##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

There is a moderate positive correlation between Daily internet usage and daily time spent on site There is a weak negative correlation between daily time spent on site and area income There is a weak negative correlation between Daily internet usage and age

```
# Plot a scatter plot
plot(crypto[,1:4])
```



```
# Plot heatmap
heatmap(cor(crypto[,1:4]))
```



Conclusion

Most people who clicked on the ad are not male

Most people who clicked on the ad were from Australia, Ethiopia and Turkey

Most people who clicked on the ad daily time spent on the site is 75.55 minutes

Most people who clicked on the ad daily internet usage is 113.53 115.91 117.3 119.3 120.06 125.45 132.38 135.24 136.18 138.35 158.22 161.16 167.22 169.4

Most people who clicked the ad were 45 ,36 and 38 years old

Most people who clicked on the ad were from Lake David,Lake James,Lisamouth,Michelleside, Millerbury Robertfurt,South Lisa, West Amanda ,West Shannon.Williamsport

Recommendations

The company should target their ads to the people with the above characteristics