week 13 part 1

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1. Defining the Question

##a) Specifying the data analytic question Create a model that will consistently and accurately identify which individuals are most likely to click on ads.

##b) Defining the metric of success The model will be considered a success when it is able to consistently and accurately predict the target variable with an accuracy of 85% - 95%. The range ensures we have a well performing model while also avoiding overfitting.

##c) Understanding 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 my services as a Data Science Consultant to help her identify which individuals are most likely to click on her ads.

##d) Recording the experimental design The process will entail: \* Define the question, the metric for success, the context, experimental design taken. \* Read and explore the given dataset. \* Define the appropriateness of the available data to answer the given question. \* Find and deal with outliers, anomalies, and missing data within the dataset. \* Perform univariate and bivariate analysis recording my observations. \* Implement the solution. \* Challenge the solution. \* Follow up questions.

##e) Data Relevance The appropriate dataset for this project is one that contains data on the characteristics of the individuals who read the client's blogs.Its appropriateness will be measured against the metrics of success. The following are the descriptions of the columns contained in the dataset: \* Daily Time Spent on Site: Time (in minutes) that the individual spent on the site \* Age: Individuals’s age in years \* Area Income: Average income of geographical area of the individual \* Daily Internet Usage: Time (in minutes) that the individual spent on the internet \* Ad Topic Line: Headline of the advertisement \* City: The individuals’s city \* Male: Whether or not the individual was male (1=yes, 0=no) \* Country: The individuals’s country \* Timestamp: Date and time the individual visited the site \* Clicked on Ad: Whether or not the individual clicked on an ad (1=yes, 0=no) [Advertising dataset](http://bit.ly/IPAdvertisingData)

#2. Reading the Data

# Loading our data set  
advertising <-read.csv("http://bit.ly/IPAdvertisingData", header = TRUE)

#3. Checking the data

# The first 6 rows   
head(advertising)

## 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

# Checking the structure of the data  
str(advertising)

## 'data.frame': 1000 obs. of 10 variables:  
## $ Daily.Time.Spent.on.Site: num 69 80.2 69.5 74.2 68.4 ...  
## $ Age : int 35 31 26 29 35 23 33 48 30 20 ...  
## $ Area.Income : num 61834 68442 59786 54806 73890 ...  
## $ Daily.Internet.Usage : num 256 194 236 246 226 ...  
## $ Ad.Topic.Line : chr "Cloned 5thgeneration orchestration" "Monitored national standardization" "Organic bottom-line service-desk" "Triple-buffered reciprocal time-frame" ...  
## $ City : chr "Wrightburgh" "West Jodi" "Davidton" "West Terrifurt" ...  
## $ Male : int 0 1 0 1 0 1 0 1 1 1 ...  
## $ Country : chr "Tunisia" "Nauru" "San Marino" "Italy" ...  
## $ Timestamp : chr "2016-03-27 00:53:11" "2016-04-04 01:39:02" "2016-03-13 20:35:42" "2016-01-10 02:31:19" ...  
## $ Clicked.on.Ad : int 0 0 0 0 0 0 0 1 0 0 ...

# A statistical summary of the data  
summary(advertising)

## 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

# dimensions of the data   
dim(advertising)

## [1] 1000 10

#class of the data  
class(advertising)

## [1] "data.frame"

#4. Data Cleaning

\*Checking for missing values\*

#Data completeness  
#Checking for missing data  
colSums(is.na(advertising))

## 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

# There are no missing values

\*Checking for duplicates\*

anyDuplicated(advertising)

## [1] 0

# There are no duplicated rows in the data

#Changing the male column to gender for consistency  
names(advertising)[names(advertising) == 'Male'] <- 'Gender'  
advertising$Gender <- as.factor(advertising$Gender)  
head(advertising)

## 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 Gender 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

#covert clicked on ad column to factor  
advertising$Clicked.on.Ad <- as.factor(advertising$Clicked.on.Ad)  
str(advertising)

## 'data.frame': 1000 obs. of 10 variables:  
## $ Daily.Time.Spent.on.Site: num 69 80.2 69.5 74.2 68.4 ...  
## $ Age : int 35 31 26 29 35 23 33 48 30 20 ...  
## $ Area.Income : num 61834 68442 59786 54806 73890 ...  
## $ Daily.Internet.Usage : num 256 194 236 246 226 ...  
## $ Ad.Topic.Line : chr "Cloned 5thgeneration orchestration" "Monitored national standardization" "Organic bottom-line service-desk" "Triple-buffered reciprocal time-frame" ...  
## $ City : chr "Wrightburgh" "West Jodi" "Davidton" "West Terrifurt" ...  
## $ Gender : Factor w/ 2 levels "0","1": 1 2 1 2 1 2 1 2 2 2 ...  
## $ Country : chr "Tunisia" "Nauru" "San Marino" "Italy" ...  
## $ Timestamp : chr "2016-03-27 00:53:11" "2016-04-04 01:39:02" "2016-03-13 20:35:42" "2016-01-10 02:31:19" ...  
## $ Clicked.on.Ad : Factor w/ 2 levels "0","1": 1 1 1 1 1 1 1 2 1 1 ...

#converting timestamp column to datetime  
library('lubridate')

##   
## Attaching package: 'lubridate'

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

library('dplyr')

##   
## Attaching package: 'dplyr'

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

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

advertising %>%  
 mutate\_all(type.convert)%>%  
 mutate\_if(is.factor, as.character)%>%  
 mutate(Timestamp= as\_datetime(Timestamp, tz=Sys.timezone()))

## Warning in type.convert.default(Daily.Time.Spent.on.Site): 'as.is' should be  
## specified by the caller; using TRUE

## Warning in type.convert.default(Age): 'as.is' should be specified by the caller;  
## using TRUE

## Warning in type.convert.default(Area.Income): 'as.is' should be specified by the  
## caller; using TRUE

## Warning in type.convert.default(Daily.Internet.Usage): 'as.is' should be  
## specified by the caller; using TRUE

## Warning in type.convert.default(Ad.Topic.Line): 'as.is' should be specified by  
## the caller; using TRUE

## Warning in type.convert.default(City): 'as.is' should be specified by the  
## caller; using TRUE

## Warning in type.convert.default(Gender): 'as.is' should be specified by the  
## caller; using TRUE

## Warning in type.convert.default(Country): 'as.is' should be specified by the  
## caller; using TRUE

## Warning in type.convert.default(Timestamp): 'as.is' should be specified by the  
## caller; using TRUE

## Warning in type.convert.default(Clicked.on.Ad): 'as.is' should be specified by  
## the caller; using TRUE

## Daily.Time.Spent.on.Site Age Area.Income Daily.Internet.Usage  
## 1 68.95 35 61833.90 256.09  
## 2 80.23 31 68441.85 193.77  
## 3 69.47 26 59785.94 236.50  
## 4 74.15 29 54806.18 245.89  
## 5 68.37 35 73889.99 225.58  
## 6 59.99 23 59761.56 226.74  
## 7 88.91 33 53852.85 208.36  
## 8 66.00 48 24593.33 131.76  
## 9 74.53 30 68862.00 221.51  
## 10 69.88 20 55642.32 183.82  
## 11 47.64 49 45632.51 122.02  
## 12 83.07 37 62491.01 230.87  
## 13 69.57 48 51636.92 113.12  
## 14 79.52 24 51739.63 214.23  
## 15 42.95 33 30976.00 143.56  
## 16 63.45 23 52182.23 140.64  
## 17 55.39 37 23936.86 129.41  
## 18 82.03 41 71511.08 187.53  
## 19 54.70 36 31087.54 118.39  
## 20 74.58 40 23821.72 135.51  
## 21 77.22 30 64802.33 224.44  
## 22 84.59 35 60015.57 226.54  
## 23 41.49 52 32635.70 164.83  
## 24 87.29 36 61628.72 209.93  
## 25 41.39 41 68962.32 167.22  
## 26 78.74 28 64828.00 204.79  
## 27 48.53 28 38067.08 134.14  
## 28 51.95 52 58295.82 129.23  
## 29 70.20 34 32708.94 119.20  
## 30 76.02 22 46179.97 209.82  
## 31 67.64 35 51473.28 267.01  
## 32 86.41 28 45593.93 207.48  
## 33 59.05 57 25583.29 169.23  
## 34 55.60 23 30227.98 212.58  
## 35 57.64 57 45580.92 133.81  
## 36 84.37 30 61389.50 201.58  
## 37 62.26 53 56770.79 125.45  
## 38 65.82 39 76435.30 221.94  
## 39 50.43 46 57425.87 119.32  
## 40 38.93 39 27508.41 162.08  
## 41 84.98 29 57691.95 202.61  
## 42 64.24 30 59784.18 252.36  
## 43 82.52 32 66572.39 198.11  
## 44 81.38 31 64929.61 212.30  
## 45 80.47 25 57519.64 204.86  
## 46 37.68 52 53575.48 172.83  
## 47 69.62 20 50983.75 202.25  
## 48 85.40 43 67058.72 198.72  
## 49 44.33 37 52723.34 123.72  
## 50 48.01 46 54286.10 119.93  
## 51 73.18 23 61526.25 196.71  
## 52 79.94 28 58526.04 225.29  
## 53 33.33 45 53350.11 193.58  
## 54 50.33 50 62657.53 133.20  
## 55 62.31 47 62722.57 119.30  
## 56 80.60 31 67479.62 177.55  
## 57 65.19 36 75254.88 150.61  
## 58 44.98 49 52336.64 129.31  
## 59 77.63 29 56113.37 239.22  
## 60 41.82 41 24852.90 156.36  
## 61 85.61 27 47708.42 183.43  
## 62 85.84 34 64654.66 192.93  
## 63 72.08 29 71228.44 169.50  
## 64 86.06 32 61601.05 178.92  
## 65 45.96 45 66281.46 141.22  
## 66 62.42 29 73910.90 198.50  
## 67 63.89 40 51317.33 105.22  
## 68 35.33 32 51510.18 200.22  
## 69 75.74 25 61005.87 215.25  
## 70 78.53 34 32536.98 131.72  
## 71 46.13 31 60248.97 139.01  
## 72 69.01 46 74543.81 222.63  
## 73 55.35 39 75509.61 153.17  
## 74 33.21 43 42650.32 167.07  
## 75 38.46 42 58183.04 145.98  
## 76 64.10 22 60465.72 215.93  
## 77 49.81 35 57009.76 120.06  
## 78 82.73 33 54541.56 238.99  
## 79 56.14 38 32689.04 113.53  
## 80 55.13 45 55605.92 111.71  
## 81 78.11 27 63296.87 209.25  
## 82 73.46 28 65653.47 222.75  
## 83 56.64 38 61652.53 115.91  
## 84 68.94 54 30726.26 138.71  
## 85 70.79 31 74535.94 184.10  
## 86 57.76 41 47861.93 105.15  
## 87 77.51 36 73600.28 200.55  
## 88 52.70 34 58543.94 118.60  
## 89 57.70 34 42696.67 109.07  
## 90 56.89 37 37334.78 109.29  
## 91 69.90 43 71392.53 138.35  
## 92 55.79 24 59550.05 149.67  
## 93 70.03 26 64264.25 227.72  
## 94 50.08 40 64147.86 125.85  
## 95 43.67 31 25686.34 166.29  
## 96 72.84 26 52968.22 238.63  
## 97 45.72 36 22473.08 154.02  
## 98 39.94 41 64927.19 156.30  
## 99 35.61 46 51868.85 158.22  
## 100 79.71 34 69456.83 211.65  
## 101 41.49 53 31947.65 169.18  
## 102 63.60 23 51864.77 235.28  
## 103 89.91 40 59593.56 194.23  
## 104 68.18 21 48376.14 218.17  
## 105 66.49 20 56884.74 202.16  
## 106 80.49 40 67186.54 229.12  
## 107 72.23 25 46557.92 241.03  
## 108 42.39 42 66541.05 150.99  
## 109 47.53 30 33258.09 135.18  
## 110 74.02 32 72272.90 210.54  
## 111 66.63 60 60333.38 176.98  
## 112 63.24 53 65229.13 235.78  
## 113 71.00 22 56067.38 211.87  
## 114 46.13 46 37838.72 123.64  
## 115 69.00 32 72683.35 221.21  
## 116 76.99 31 56729.78 244.34  
## 117 72.60 55 66815.54 162.95  
## 118 61.88 42 60223.52 112.19  
## 119 84.45 50 29727.79 207.18  
## 120 88.97 45 49269.98 152.49  
## 121 86.19 31 57669.41 210.26  
## 122 49.58 26 56791.75 231.94  
## 123 77.65 27 63274.88 212.79  
## 124 37.75 36 35466.80 225.24  
## 125 62.33 43 68787.09 127.11  
## 126 79.57 31 61227.59 230.93  
## 127 80.31 44 56366.88 127.07  
## 128 89.05 45 57868.44 206.98  
## 129 70.41 27 66618.21 223.03  
## 130 67.36 37 73104.47 233.56  
## 131 46.98 50 21644.91 175.37  
## 132 41.67 36 53817.02 132.55  
## 133 51.24 36 76368.31 176.73  
## 134 75.70 29 67633.44 215.44  
## 135 43.49 47 50335.46 127.83  
## 136 49.89 39 17709.98 160.03  
## 137 38.37 36 41229.16 140.46  
## 138 38.52 38 42581.23 137.28  
## 139 71.89 23 61617.98 172.81  
## 140 75.80 38 70575.60 146.19  
## 141 83.86 31 64122.36 190.25  
## 142 37.51 30 52097.32 163.00  
## 143 55.60 44 65953.76 124.38  
## 144 83.67 44 60192.72 234.26  
## 145 69.08 41 77460.07 210.60  
## 146 37.47 44 45716.48 141.89  
## 147 56.04 49 65120.86 128.95  
## 148 70.92 41 49995.63 108.16  
## 149 49.78 46 71718.51 152.24  
## 150 68.61 57 61770.34 150.29  
## 151 58.18 25 69112.84 176.28  
## 152 78.54 35 72524.86 172.10  
## 153 37.00 48 36782.38 158.22  
## 154 65.40 33 66699.12 247.31  
## 155 79.52 27 64287.78 183.48  
## 156 87.98 38 56637.59 222.11  
## 157 44.64 36 55787.58 127.01  
## 158 41.73 28 61142.33 202.18  
## 159 80.46 27 61625.87 207.96  
## 160 75.55 36 73234.87 159.24  
## 161 76.32 35 74166.24 195.31  
## 162 82.68 33 62669.59 222.77  
## 163 72.01 31 57756.89 251.00  
## 164 75.83 24 58019.64 162.44  
## 165 41.28 50 50960.08 140.39  
## 166 34.66 32 48246.60 194.83  
## 167 66.18 55 28271.84 143.42  
## 168 86.06 31 53767.12 219.72  
## 169 59.59 42 43662.10 104.78  
## 170 86.69 34 62238.58 198.56  
## 171 43.77 52 49030.03 138.55  
## 172 71.84 47 76003.47 199.79  
## 173 80.23 31 68094.85 196.23  
## 174 74.41 26 64395.85 163.05  
## 175 63.36 48 70053.27 137.43  
## 176 71.74 35 72423.97 227.56  
## 177 60.72 44 42995.80 105.69  
## 178 72.04 22 60309.58 199.43  
## 179 44.57 31 38349.78 133.17  
## 180 85.86 34 63115.34 208.23  
## 181 39.85 38 31343.39 145.96  
## 182 84.53 27 40763.13 168.34  
## 183 62.95 60 36752.24 157.04  
## 184 67.58 41 65044.59 255.61  
## 185 85.56 29 53673.08 210.46  
## 186 46.88 54 43444.86 136.64  
## 187 46.31 57 44248.52 153.98  
## 188 77.95 31 62572.88 233.65  
## 189 84.73 30 39840.55 153.76  
## 190 39.86 36 32593.59 145.85  
## 191 50.08 30 41629.86 123.91  
## 192 60.23 35 43313.73 106.86  
## 193 60.70 49 42993.48 110.57  
## 194 43.67 53 46004.31 143.79  
## 195 77.20 33 49325.48 254.05  
## 196 71.86 32 51633.34 116.53  
## 197 44.78 45 63363.04 137.24  
## 198 78.57 36 64045.93 239.32  
## 199 73.41 31 73049.30 201.26  
## 200 77.05 27 66624.60 191.14  
## 201 66.40 40 77567.85 214.42  
## 202 69.35 29 53431.35 252.77  
## 203 35.65 40 31265.75 172.58  
## 204 70.04 31 74780.74 183.85  
## 205 69.78 29 70410.11 218.79  
## 206 58.22 29 37345.24 120.90  
## 207 76.90 28 66107.84 212.67  
## 208 84.08 30 62336.39 187.36  
## 209 59.51 58 39132.64 140.83  
## 210 40.15 38 38745.29 134.88  
## 211 76.81 28 65172.22 217.85  
## 212 41.89 38 68519.96 163.38  
## 213 76.87 27 54774.77 235.35  
## 214 67.28 43 76246.96 155.80  
## 215 81.98 40 65461.92 229.22  
## 216 66.01 23 34127.21 151.95  
## 217 61.57 53 35253.98 125.94  
## 218 53.30 34 44893.71 111.94  
## 219 34.87 40 59621.02 200.23  
## 220 43.60 38 20856.54 170.49  
## 221 77.88 37 55353.41 254.57  
## 222 75.83 27 67516.07 200.59  
## 223 49.95 39 68737.75 136.59  
## 224 60.94 41 76893.84 154.97  
## 225 89.15 42 59886.58 171.07  
## 226 78.70 30 53441.69 133.99  
## 227 57.35 29 41356.31 119.84  
## 228 34.86 38 49942.66 154.75  
## 229 70.68 31 74430.08 199.08  
## 230 76.06 23 58633.63 201.04  
## 231 66.67 33 72707.87 228.03  
## 232 46.77 32 31092.93 136.40  
## 233 62.42 38 74445.18 143.94  
## 234 78.32 28 49309.14 239.52  
## 235 37.32 50 56735.14 199.25  
## 236 40.42 45 40183.75 133.90  
## 237 76.77 36 58348.41 123.51  
## 238 65.65 30 72209.99 158.05  
## 239 74.32 33 62060.11 128.17  
## 240 73.27 32 67113.46 234.75  
## 241 80.03 44 24030.06 150.84  
## 242 53.68 47 56180.93 115.26  
## 243 85.84 32 62204.93 192.85  
## 244 85.03 30 60372.64 204.52  
## 245 70.44 24 65280.16 178.75  
## 246 81.22 53 34309.24 223.09  
## 247 39.96 45 59610.81 146.13  
## 248 57.05 41 50278.89 269.96  
## 249 42.44 56 43450.11 168.27  
## 250 62.20 25 25408.21 161.16  
## 251 76.70 36 71136.49 222.25  
## 252 61.22 45 63883.81 119.03  
## 253 84.54 33 64902.47 204.02  
## 254 46.08 30 66784.81 164.63  
## 255 56.70 48 62784.85 123.13  
## 256 81.03 28 63727.50 201.15  
## 257 80.91 32 61608.23 231.42  
## 258 40.06 38 56782.18 138.68  
## 259 83.47 39 64447.77 226.11  
## 260 73.84 31 42042.95 121.05  
## 261 74.65 28 67669.06 212.56  
## 262 60.25 35 54875.95 109.77  
## 263 59.21 35 73347.67 144.62  
## 264 43.02 44 50199.77 125.22  
## 265 84.04 38 50723.67 244.55  
## 266 70.66 43 63450.96 120.95  
## 267 70.58 26 56694.12 136.94  
## 268 72.44 34 70547.16 230.14  
## 269 40.17 26 47391.95 171.31  
## 270 79.15 26 62312.23 203.23  
## 271 44.49 53 63100.13 168.00  
## 272 73.04 37 73687.50 221.79  
## 273 76.28 33 52686.47 254.34  
## 274 68.88 37 78119.50 179.58  
## 275 73.10 28 57014.84 242.37  
## 276 47.66 29 27086.40 156.54  
## 277 87.30 35 58337.18 216.87  
## 278 89.34 32 50216.01 177.78  
## 279 81.37 26 53049.44 156.48  
## 280 81.67 28 62927.96 196.76  
## 281 46.37 52 32847.53 144.27  
## 282 54.88 24 32006.82 148.61  
## 283 40.67 35 48913.07 133.18  
## 284 71.76 35 69285.69 237.39  
## 285 47.51 51 53700.57 130.41  
## 286 75.15 22 52011.00 212.87  
## 287 56.01 26 46339.25 127.26  
## 288 82.87 37 67938.77 213.36  
## 289 45.05 42 66348.95 141.36  
## 290 60.53 24 66873.90 167.22  
## 291 50.52 31 72270.88 171.62  
## 292 84.71 32 61610.05 210.23  
## 293 55.20 39 76560.59 159.46  
## 294 81.61 33 62667.51 228.76  
## 295 71.55 36 75687.46 163.99  
## 296 82.40 36 66744.65 218.97  
## 297 73.95 35 67714.82 238.58  
## 298 72.07 31 69710.51 226.45  
## 299 80.39 31 66269.49 214.74  
## 300 65.80 25 60843.32 231.49  
## 301 69.97 28 55041.60 250.00  
## 302 52.62 50 73863.25 176.52  
## 303 39.25 39 62378.05 152.36  
## 304 77.56 38 63336.85 130.83  
## 305 33.52 43 42191.61 165.56  
## 306 79.81 24 56194.56 178.85  
## 307 84.79 33 61771.90 214.53  
## 308 82.70 35 61383.79 231.07  
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## Ad.Topic.Line  
## 1 Cloned 5thgeneration orchestration  
## 2 Monitored national standardization  
## 3 Organic bottom-line service-desk  
## 4 Triple-buffered reciprocal time-frame  
## 5 Robust logistical utilization  
## 6 Sharable client-driven software  
## 7 Enhanced dedicated support  
## 8 Reactive local challenge  
## 9 Configurable coherent function  
## 10 Mandatory homogeneous architecture  
## 11 Centralized neutral neural-net  
## 12 Team-oriented grid-enabled Local Area Network  
## 13 Centralized content-based focus group  
## 14 Synergistic fresh-thinking array  
## 15 Grass-roots coherent extranet  
## 16 Persistent demand-driven interface  
## 17 Customizable multi-tasking website  
## 18 Intuitive dynamic attitude  
## 19 Grass-roots solution-oriented conglomeration  
## 20 Advanced 24/7 productivity  
## 21 Object-based reciprocal knowledgebase  
## 22 Streamlined non-volatile analyzer  
## 23 Mandatory disintermediate utilization  
## 24 Future-proofed methodical protocol  
## 25 Exclusive neutral parallelism  
## 26 Public-key foreground groupware  
## 27 Ameliorated client-driven forecast  
## 28 Monitored systematic hierarchy  
## 29 Open-architected impactful productivity  
## 30 Business-focused value-added definition  
## 31 Programmable asymmetric data-warehouse  
## 32 Digitized static capability  
## 33 Digitized global capability  
## 34 Multi-layered 4thgeneration knowledge user  
## 35 Synchronized dedicated service-desk  
## 36 Synchronized systemic hierarchy  
## 37 Profound stable product  
## 38 Reactive demand-driven capacity  
## 39 Persevering needs-based open architecture  
## 40 Intuitive exuding service-desk  
## 41 Innovative user-facing extranet  
## 42 Front-line intermediate database  
## 43 Persevering exuding system engine  
## 44 Balanced dynamic application  
## 45 Reduced global support  
## 46 Organic leadingedge secured line  
## 47 Business-focused encompassing neural-net  
## 48 Triple-buffered demand-driven alliance  
## 49 Visionary maximized process improvement  
## 50 Centralized 24/7 installation  
## 51 Organized static focus group  
## 52 Visionary reciprocal circuit  
## 53 Pre-emptive value-added workforce  
## 54 Sharable analyzing alliance  
## 55 Team-oriented encompassing portal  
## 56 Sharable bottom-line solution  
## 57 Cross-group regional website  
## 58 Organized global model  
## 59 Upgradable asynchronous circuit  
## 60 Phased transitional instruction set  
## 61 Customer-focused empowering ability  
## 62 Front-line heuristic data-warehouse  
## 63 Stand-alone national attitude  
## 64 Focused upward-trending core  
## 65 Streamlined cohesive conglomeration  
## 66 Upgradable optimizing toolset  
## 67 Synchronized user-facing core  
## 68 Organized client-driven alliance  
## 69 Ergonomic multi-state structure  
## 70 Synergized multimedia emulation  
## 71 Customer-focused optimizing moderator  
## 72 Advanced full-range migration  
## 73 De-engineered object-oriented protocol  
## 74 Polarized clear-thinking budgetary management  
## 75 Customizable 6thgeneration knowledge user  
## 76 Seamless object-oriented structure  
## 77 Seamless real-time array  
## 78 Grass-roots impactful system engine  
## 79 Devolved tangible approach  
## 80 Customizable executive software  
## 81 Progressive analyzing attitude  
## 82 Innovative executive encoding  
## 83 Down-sized uniform info-mediaries  
## 84 Streamlined next generation implementation  
## 85 Distributed tertiary system engine  
## 86 Triple-buffered scalable groupware  
## 87 Total 5thgeneration encoding  
## 88 Integrated human-resource encoding  
## 89 Phased dynamic customer loyalty  
## 90 Open-source coherent policy  
## 91 Down-sized modular intranet  
## 92 Pre-emptive content-based focus group  
## 93 Versatile 4thgeneration system engine  
## 94 Ergonomic full-range time-frame  
## 95 Automated directional function  
## 96 Progressive empowering alliance  
## 97 Versatile homogeneous capacity  
## 98 Function-based optimizing protocol  
## 99 Up-sized secondary software  
## 100 Seamless holistic time-frame  
## 101 Persevering reciprocal firmware  
## 102 Centralized logistical secured line  
## 103 Innovative background conglomeration  
## 104 Switchable 3rdgeneration hub  
## 105 Polarized 6thgeneration info-mediaries  
## 106 Balanced heuristic approach  
## 107 Focused 24hour implementation  
## 108 De-engineered mobile infrastructure  
## 109 Customer-focused upward-trending contingency  
## 110 Operative system-worthy protocol  
## 111 User-friendly upward-trending intranet  
## 112 Future-proofed holistic superstructure  
## 113 Extended systemic policy  
## 114 Horizontal hybrid challenge  
## 115 Virtual composite model  
## 116 Switchable mobile framework  
## 117 Focused intangible moderator  
## 118 Balanced actuating moderator  
## 119 Customer-focused transitional strategy  
## 120 Advanced web-enabled standardization  
## 121 Pre-emptive executive knowledgebase  
## 122 Self-enabling holistic process improvement  
## 123 Horizontal client-driven hierarchy  
## 124 Polarized dynamic throughput  
## 125 Devolved zero administration intranet  
## 126 User-friendly asymmetric info-mediaries  
## 127 Cross-platform regional task-force  
## 128 Polarized bandwidth-monitored moratorium  
## 129 Centralized systematic knowledgebase  
## 130 Future-proofed grid-enabled implementation  
## 131 Down-sized well-modulated archive  
## 132 Realigned zero tolerance emulation  
## 133 Versatile transitional monitoring  
## 134 Profound zero administration instruction set  
## 135 User-centric intangible task-force  
## 136 Enhanced system-worthy application  
## 137 Multi-layered user-facing paradigm  
## 138 Customer-focused 24/7 concept  
## 139 Function-based transitional complexity  
## 140 Progressive clear-thinking open architecture  
## 141 Up-sized executive moderator  
## 142 Re-contextualized optimal service-desk  
## 143 Fully-configurable neutral open system  
## 144 Upgradable system-worthy array  
## 145 Ergonomic client-driven application  
## 146 Realigned content-based leverage  
## 147 Decentralized real-time circuit  
## 148 Polarized modular function  
## 149 Enterprise-wide client-driven contingency  
## 150 Diverse modular interface  
## 151 Polarized analyzing concept  
## 152 Multi-channeled asynchronous open system  
## 153 Function-based context-sensitive secured line  
## 154 Adaptive 24hour Graphic Interface  
## 155 Automated coherent flexibility  
## 156 Focused scalable complexity  
## 157 Up-sized incremental encryption  
## 158 Sharable dedicated Graphic Interface  
## 159 Digitized zero administration paradigm  
## 160 Managed grid-enabled standardization  
## 161 Networked foreground definition  
## 162 Re-engineered exuding frame  
## 163 Horizontal multi-state interface  
## 164 Diverse stable circuit  
## 165 Universal 24/7 implementation  
## 166 Customer-focused multi-tasking Internet solution  
## 167 Vision-oriented contextually-based extranet  
## 168 Extended local methodology  
## 169 Re-engineered demand-driven capacity  
## 170 Customer-focused attitude-oriented instruction set  
## 171 Synergized hybrid time-frame  
## 172 Advanced exuding conglomeration  
## 173 Secured clear-thinking middleware  
## 174 Right-sized value-added initiative  
## 175 Centralized tertiary pricing structure  
## 176 Multi-channeled reciprocal artificial intelligence  
## 177 Synergized context-sensitive database  
## 178 Realigned systematic function  
## 179 Adaptive context-sensitive application  
## 180 Networked high-level structure  
## 181 Profit-focused dedicated utilization  
## 182 Stand-alone tangible moderator  
## 183 Polarized tangible collaboration  
## 184 Focused high-level conglomeration  
## 185 Advanced modular Local Area Network  
## 186 Virtual scalable secured line  
## 187 Front-line fault-tolerant intranet  
## 188 Inverse asymmetric instruction set  
## 189 Synchronized leadingedge help-desk  
## 190 Total 5thgeneration standardization  
## 191 Sharable grid-enabled matrix  
## 192 Balanced asynchronous hierarchy  
## 193 Monitored object-oriented Graphic Interface  
## 194 Cloned analyzing artificial intelligence  
## 195 Persistent homogeneous framework  
## 196 Face-to-face even-keeled website  
## 197 Extended context-sensitive monitoring  
## 198 Exclusive client-driven model  
## 199 Profound executive flexibility  
## 200 Reduced bi-directional strategy  
## 201 Digitized heuristic solution  
## 202 Seamless 4thgeneration contingency  
## 203 Seamless intangible secured line  
## 204 Intuitive radical forecast  
## 205 Multi-layered non-volatile Graphical User Interface  
## 206 User-friendly client-server instruction set  
## 207 Synchronized multimedia model  
## 208 Face-to-face intermediate approach  
## 209 Assimilated fault-tolerant hub  
## 210 Exclusive disintermediate task-force  
## 211 Managed zero tolerance concept  
## 212 Compatible systemic function  
## 213 Configurable fault-tolerant monitoring  
## 214 Future-proofed coherent hardware  
## 215 Ameliorated upward-trending definition  
## 216 Front-line tangible alliance  
## 217 Progressive 24hour forecast  
## 218 Self-enabling optimal initiative  
## 219 Configurable logistical Graphical User Interface  
## 220 Virtual bandwidth-monitored initiative  
## 221 Multi-tiered human-resource structure  
## 222 Managed upward-trending instruction set  
## 223 Cloned object-oriented benchmark  
## 224 Fundamental fault-tolerant neural-net  
## 225 Phased zero administration success  
## 226 Compatible intangible customer loyalty  
## 227 Distributed 3rdgeneration definition  
## 228 Pre-emptive cohesive budgetary management  
## 229 Configurable multi-state utilization  
## 230 Diverse multi-tasking parallelism  
## 231 Horizontal content-based synergy  
## 232 Multi-tiered maximized archive  
## 233 Diverse executive groupware  
## 234 Synergized cohesive array  
## 235 Versatile dedicated software  
## 236 Stand-alone reciprocal synergy  
## 237 Universal even-keeled analyzer  
## 238 Up-sized tertiary contingency  
## 239 Monitored real-time superstructure  
## 240 Streamlined analyzing initiative  
## 241 Automated static concept  
## 242 Operative stable moderator  
## 243 Up-sized 6thgeneration moratorium  
## 244 Expanded clear-thinking core  
## 245 Polarized attitude-oriented superstructure  
## 246 Networked coherent interface  
## 247 Enhanced homogeneous moderator  
## 248 Seamless full-range website  
## 249 Profit-focused attitude-oriented task-force  
## 250 Cross-platform multimedia algorithm  
## 251 Open-source coherent monitoring  
## 252 Streamlined logistical secured line  
## 253 Synchronized stable complexity  
## 254 Synergistic value-added extranet  
## 255 Progressive non-volatile neural-net  
## 256 Persevering tertiary capability  
## 257 Enterprise-wide bi-directional secured line  
## 258 Organized contextually-based customer loyalty  
## 259 Total directional approach  
## 260 Programmable uniform productivity  
## 261 Robust transitional ability  
## 262 De-engineered fault-tolerant database  
## 263 Managed disintermediate matrices  
## 264 Configurable bottom-line application  
## 265 Self-enabling didactic pricing structure  
## 266 Versatile scalable encryption  
## 267 Proactive next generation knowledge user  
## 268 Customizable tangible hierarchy  
## 269 Visionary asymmetric encryption  
## 270 Intuitive explicit conglomeration  
## 271 Business-focused real-time toolset  
## 272 Organic contextually-based focus group  
## 273 Right-sized asynchronous website  
## 274 Advanced 5thgeneration capability  
## 275 Universal asymmetric archive  
## 276 Devolved responsive structure  
## 277 Triple-buffered regional toolset  
## 278 Object-based executive productivity  
## 279 Business-focused responsive website  
## 280 Visionary analyzing structure  
## 281 De-engineered solution-oriented open architecture  
## 282 Customizable modular Internet solution  
## 283 Stand-alone encompassing throughput  
## 284 Customizable zero-defect matrix  
## 285 Managed well-modulated collaboration  
## 286 Universal global intranet  
## 287 Re-engineered real-time success  
## 288 Front-line fresh-thinking open system  
## 289 Digitized contextually-based product  
## 290 Organic interactive support  
## 291 Function-based stable alliance  
## 292 Reactive responsive emulation  
## 293 Exclusive zero tolerance alliance  
## 294 Enterprise-wide local matrices  
## 295 Inverse next generation moratorium  
## 296 Implemented bifurcated workforce  
## 297 Persevering even-keeled help-desk  
## 298 Grass-roots eco-centric instruction set  
## 299 Fully-configurable incremental Graphical User Interface  
## 300 Expanded radical software  
## 301 Mandatory 3rdgeneration moderator  
## 302 Enterprise-wide foreground emulation  
## 303 Customer-focused incremental system engine  
## 304 Right-sized multi-tasking solution  
## 305 Vision-oriented optimizing middleware  
## 306 Proactive context-sensitive project  
## 307 Managed eco-centric encoding  
## 308 Visionary multi-tasking alliance  
## 309 Ameliorated tangible hierarchy  
## 310 Extended interactive model  
## 311 Universal bi-directional extranet  
## 312 Enhanced maximized access  
## 313 Upgradable even-keeled challenge  
## 314 Synchronized national infrastructure  
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## 316 Horizontal national architecture  
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## 318 Horizontal transitional challenge  
## 319 Re-engineered neutral success  
## 320 Adaptive contextually-based methodology  
## 321 Configurable dynamic adapter  
## 322 Multi-lateral empowering throughput  
## 323 Fundamental zero tolerance solution  
## 324 Proactive asymmetric definition  
## 325 Pre-emptive zero tolerance Local Area Network  
## 326 Self-enabling incremental collaboration  
## 327 Exclusive even-keeled moratorium  
## 328 Reduced incremental productivity  
## 329 Realigned scalable standardization  
## 330 Secured scalable Graphical User Interface  
## 331 Team-oriented context-sensitive installation  
## 332 Pre-emptive systematic budgetary management  
## 333 Fully-configurable high-level implementation  
## 334 Profound maximized workforce  
## 335 Cross-platform 4thgeneration focus group  
## 336 Optional mission-critical functionalities  
## 337 Multi-layered tangible portal  
## 338 Reduced mobile structure  
## 339 Enhanced zero tolerance Graphic Interface  
## 340 De-engineered tertiary secured line  
## 341 Reverse-engineered well-modulated capability  
## 342 Integrated coherent pricing structure  
## 343 Realigned next generation projection  
## 344 Reactive needs-based instruction set  
## 345 User-friendly well-modulated leverage  
## 346 Function-based fault-tolerant model  
## 347 Decentralized needs-based analyzer  
## 348 Phased analyzing emulation  
## 349 Multi-layered fresh-thinking process improvement  
## 350 Upgradable directional system engine  
## 351 Persevering eco-centric flexibility  
## 352 Inverse local hub  
## 353 Triple-buffered needs-based Local Area Network  
## 354 Centralized multi-state hierarchy  
## 355 Public-key non-volatile implementation  
## 356 Synergized coherent interface  
## 357 Horizontal high-level concept  
## 358 Reduced multimedia project  
## 359 Object-based modular functionalities  
## 360 Polarized multimedia system engine  
## 361 Versatile reciprocal structure  
## 362 Upgradable multi-tasking initiative  
## 363 Configurable tertiary budgetary management  
## 364 Adaptive asynchronous attitude  
## 365 Face-to-face mission-critical definition  
## 366 Inverse zero tolerance customer loyalty  
## 367 Centralized 24hour synergy  
## 368 Face-to-face analyzing encryption  
## 369 Self-enabling even-keeled methodology  
## 370 Function-based optimizing extranet  
## 371 Organic asynchronous hierarchy  
## 372 Automated client-driven orchestration  
## 373 Public-key zero-defect analyzer  
## 374 Proactive client-server productivity  
## 375 Cloned incremental matrices  
## 376 Open-architected system-worthy task-force  
## 377 Devolved regional moderator  
## 378 Balanced value-added database  
## 379 Seamless composite budgetary management  
## 380 Total cohesive moratorium  
## 381 Integrated motivating neural-net  
## 382 Exclusive zero tolerance frame  
## 383 Operative scalable emulation  
## 384 Enhanced asymmetric installation  
## 385 Face-to-face reciprocal methodology  
## 386 Robust responsive collaboration  
## 387 Polarized logistical hub  
## 388 Intuitive zero-defect framework  
## 389 Reactive composite project  
## 390 Upgradable even-keeled hardware  
## 391 Future-proofed responsive matrix  
## 392 Programmable empowering middleware  
## 393 Robust dedicated system engine  
## 394 Public-key mission-critical core  
## 395 Operative actuating installation  
## 396 Self-enabling asynchronous knowledge user  
## 397 Configurable 24/7 hub  
## 398 Versatile responsive knowledge user  
## 399 Managed impactful definition  
## 400 Grass-roots 4thgeneration forecast  
## 401 Focused 3rdgeneration pricing structure  
## 402 Mandatory dedicated data-warehouse  
## 403 Proactive radical support  
## 404 Re-engineered responsive definition  
## 405 Profound optimizing utilization  
## 406 Cloned explicit middleware  
## 407 Multi-channeled mission-critical success  
## 408 Versatile content-based protocol  
## 409 Seamless cohesive conglomeration  
## 410 De-engineered actuating hierarchy  
## 411 Balanced motivating help-desk  
## 412 Inverse high-level capability  
## 413 Cross-platform client-server hierarchy  
## 414 Sharable optimal capacity  
## 415 Face-to-face multimedia success  
## 416 Enterprise-wide incremental Internet solution  
## 417 Advanced systemic productivity  
## 418 Customizable mission-critical adapter  
## 419 Horizontal heuristic synergy  
## 420 Multi-tiered multi-state moderator  
## 421 Re-contextualized reciprocal interface  
## 422 Organized demand-driven knowledgebase  
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## 424 User-friendly bandwidth-monitored attitude  
## 425 Re-engineered context-sensitive knowledge user  
## 426 Total user-facing hierarchy  
## 427 Balanced contextually-based pricing structure  
## 428 Inverse bi-directional knowledge user  
## 429 Networked even-keeled workforce  
## 430 Right-sized transitional parallelism  
## 431 Customer-focused system-worthy superstructure  
## 432 Balanced 4thgeneration success  
## 433 Cross-group value-added success  
## 434 Visionary client-driven installation  
## 435 Switchable well-modulated infrastructure  
## 436 Upgradable asymmetric emulation  
## 437 Configurable tertiary capability  
## 438 Monitored dynamic instruction set  
## 439 Robust web-enabled attitude  
## 440 Customer-focused full-range neural-net  
## 441 Universal transitional Graphical User Interface  
## 442 User-centric intangible contingency  
## 443 Configurable disintermediate throughput  
## 444 Automated web-enabled migration  
## 445 Triple-buffered 3rdgeneration migration  
## 446 Universal contextually-based system engine  
## 447 Optional secondary access  
## 448 Quality-focused scalable utilization  
## 449 Team-oriented dynamic forecast  
## 450 Horizontal heuristic support  
## 451 Customer-focused zero-defect process improvement  
## 452 Focused systemic benchmark  
## 453 Seamless impactful info-mediaries  
## 454 Advanced heuristic firmware  
## 455 Fully-configurable client-driven customer loyalty  
## 456 Cross-group neutral synergy  
## 457 Organized 24/7 middleware  
## 458 Networked stable open architecture  
## 459 Customizable systematic service-desk  
## 460 Function-based directional productivity  
## 461 Networked stable array  
## 462 Phased full-range hardware  
## 463 Organized empowering policy  
## 464 Object-based system-worthy superstructure  
## 465 Profound explicit hardware  
## 466 Self-enabling multimedia system engine  
## 467 Polarized analyzing intranet  
## 468 Vision-oriented attitude-oriented Internet solution  
## 469 Digitized disintermediate ability  
## 470 Intuitive explicit firmware  
## 471 Public-key real-time definition  
## 472 Monitored content-based implementation  
## 473 Quality-focused zero-defect budgetary management  
## 474 Intuitive fresh-thinking moderator  
## 475 Reverse-engineered 24hour hardware  
## 476 Synchronized zero tolerance product  
## 477 Reactive interactive protocol  
## 478 Focused fresh-thinking Graphic Interface  
## 479 Ameliorated exuding solution  
## 480 Integrated maximized service-desk  
## 481 Self-enabling tertiary challenge  
## 482 Decentralized foreground infrastructure  
## 483 Quality-focused hybrid frame  
## 484 Realigned reciprocal framework  
## 485 Distributed maximized ability  
## 486 Polarized bifurcated array  
## 487 Progressive asynchronous adapter  
## 488 Business-focused high-level hardware  
## 489 Fully-configurable holistic throughput  
## 490 Ameliorated contextually-based collaboration  
## 491 Progressive uniform budgetary management  
## 492 Synergistic stable infrastructure  
## 493 Reverse-engineered content-based intranet  
## 494 Expanded zero administration attitude  
## 495 Team-oriented 6thgeneration extranet  
## 496 Managed disintermediate capability  
## 497 Front-line dynamic model  
## 498 Innovative regional structure  
## 499 Function-based incremental standardization  
## 500 Universal asymmetric workforce  
## 501 Business-focused client-driven forecast  
## 502 Realigned global initiative  
## 503 Business-focused maximized complexity  
## 504 Open-source global strategy  
## 505 Stand-alone motivating moratorium  
## 506 Grass-roots multimedia policy  
## 507 Upgradable local migration  
## 508 Profound bottom-line standardization  
## 509 Managed client-server access  
## 510 Cross-platform directional intranet  
## 511 Horizontal modular success  
## 512 Vision-oriented multi-tasking success  
## 513 Optional multi-state hardware  
## 514 Upgradable heuristic system engine  
## 515 Future-proofed modular utilization  
## 516 Synergistic dynamic orchestration  
## 517 Multi-layered stable encoding  
## 518 Team-oriented zero-defect initiative  
## 519 Polarized 5thgeneration matrix  
## 520 Fully-configurable context-sensitive Graphic Interface  
## 521 Progressive intermediate throughput  
## 522 Customizable holistic archive  
## 523 Compatible intermediate concept  
## 524 Assimilated next generation firmware  
## 525 Total zero administration software  
## 526 Re-engineered impactful software  
## 527 Business-focused background synergy  
## 528 Future-proofed coherent budgetary management  
## 529 Ergonomic methodical encoding  
## 530 Compatible dedicated productivity  
## 531 Up-sized real-time methodology  
## 532 Up-sized next generation architecture  
## 533 Managed 6thgeneration hierarchy  
## 534 Organic motivating model  
## 535 Pre-emptive transitional protocol  
## 536 Managed attitude-oriented Internet solution  
## 537 Public-key asynchronous matrix  
## 538 Grass-roots systematic hardware  
## 539 User-centric composite contingency  
## 540 Up-sized bi-directional infrastructure  
## 541 Assimilated actuating policy  
## 542 Organized upward-trending contingency  
## 543 Ergonomic neutral portal  
## 544 Adaptive demand-driven knowledgebase  
## 545 Reverse-engineered maximized focus group  
## 546 Switchable analyzing encryption  
## 547 Public-key intangible Graphical User Interface  
## 548 Advanced local task-force  
## 549 Profound well-modulated array  
## 550 Multi-channeled asymmetric installation  
## 551 Multi-layered fresh-thinking neural-net  
## 552 Distributed cohesive migration  
## 553 Programmable uniform website  
## 554 Object-based neutral policy  
## 555 Horizontal global leverage  
## 556 Synchronized grid-enabled moratorium  
## 557 Adaptive uniform capability  
## 558 Total grid-enabled application  
## 559 Optional regional throughput  
## 560 Integrated client-server definition  
## 561 Fundamental methodical support  
## 562 Synergistic reciprocal attitude  
## 563 Managed 5thgeneration time-frame  
## 564 Vision-oriented uniform knowledgebase  
## 565 Multi-tiered stable leverage  
## 566 Down-sized explicit budgetary management  
## 567 Cross-group human-resource time-frame  
## 568 Business-focused holistic benchmark  
## 569 Virtual 5thgeneration neural-net  
## 570 Distributed scalable orchestration  
## 571 Realigned intangible benchmark  
## 572 Virtual impactful algorithm  
## 573 Public-key solution-oriented focus group  
## 574 Phased clear-thinking encoding  
## 575 Grass-roots mission-critical emulation  
## 576 Proactive encompassing paradigm  
## 577 Automated object-oriented firmware  
## 578 User-friendly content-based customer loyalty  
## 579 Universal incremental array  
## 580 Reactive national success  
## 581 Automated multi-state toolset  
## 582 Managed didactic flexibility  
## 583 Cross-platform neutral system engine  
## 584 Focused high-level frame  
## 585 Seamless motivating approach  
## 586 Enhanced systematic adapter  
## 587 Networked regional Local Area Network  
## 588 Total human-resource flexibility  
## 589 Assimilated homogeneous service-desk  
## 590 Ergonomic zero tolerance encoding  
## 591 Cross-platform zero-defect structure  
## 592 Innovative maximized groupware  
## 593 Face-to-face executive encryption  
## 594 Monitored local Internet solution  
## 595 Phased hybrid superstructure  
## 596 User-friendly grid-enabled analyzer  
## 597 Pre-emptive neutral contingency  
## 598 User-friendly impactful time-frame  
## 599 Customizable methodical Graphical User Interface  
## 600 Cross-platform logistical pricing structure  
## 601 Inverse discrete extranet  
## 602 Open-source even-keeled database  
## 603 Diverse background ability  
## 604 Multi-tiered foreground Graphic Interface  
## 605 Customizable hybrid system engine  
## 606 Horizontal incremental website  
## 607 Front-line systemic capability  
## 608 Fully-configurable foreground solution  
## 609 Digitized radical array  
## 610 Team-oriented transitional methodology  
## 611 Future-proofed fresh-thinking conglomeration  
## 612 Operative multi-tasking Graphic Interface  
## 613 Implemented discrete frame  
## 614 Ameliorated exuding encryption  
## 615 Programmable high-level benchmark  
## 616 Sharable multimedia conglomeration  
## 617 Team-oriented high-level orchestration  
## 618 Grass-roots empowering paradigm  
## 619 Robust object-oriented Graphic Interface  
## 620 Switchable secondary ability  
## 621 Open-architected web-enabled benchmark  
## 622 Compatible scalable emulation  
## 623 Seamless optimal contingency  
## 624 Secured secondary superstructure  
## 625 Automated mobile model  
## 626 Re-engineered non-volatile neural-net  
## 627 Implemented disintermediate attitude  
## 628 Configurable interactive contingency  
## 629 Optimized systemic capability  
## 630 Front-line non-volatile implementation  
## 631 Ergonomic 24/7 solution  
## 632 Integrated grid-enabled budgetary management  
## 633 Profit-focused systemic support  
## 634 Right-sized system-worthy project  
## 635 Proactive actuating Graphical User Interface  
## 636 Versatile optimizing projection  
## 637 Universal multi-state system engine  
## 638 Secured intermediate approach  
## 639 Operative didactic Local Area Network  
## 640 Phased content-based middleware  
## 641 Triple-buffered high-level Internet solution  
## 642 Synergized well-modulated Graphical User Interface  
## 643 Implemented bottom-line implementation  
## 644 Monitored context-sensitive initiative  
## 645 Pre-emptive client-server open system  
## 646 Seamless bandwidth-monitored knowledge user  
## 647 Ergonomic empowering frame  
## 648 Reverse-engineered background Graphic Interface  
## 649 Synergistic non-volatile analyzer  
## 650 Object-based optimal solution  
## 651 Profound dynamic attitude  
## 652 Enhanced system-worthy toolset  
## 653 Reverse-engineered dynamic function  
## 654 Networked responsive application  
## 655 Distributed intangible database  
## 656 Multi-tiered mobile encoding  
## 657 Optional contextually-based flexibility  
## 658 Proactive local focus group  
## 659 Customer-focused impactful success  
## 660 Open-source optimizing parallelism  
## 661 Organic logistical adapter  
## 662 Stand-alone eco-centric system engine  
## 663 User-centric intermediate knowledge user  
## 664 Programmable didactic capacity  
## 665 Enhanced regional conglomeration  
## 666 Total asynchronous architecture  
## 667 Secured upward-trending benchmark  
## 668 Customizable value-added project  
## 669 Integrated interactive support  
## 670 Reactive impactful challenge  
## 671 Switchable multi-state success  
## 672 Synchronized multi-tasking ability  
## 673 Fundamental clear-thinking knowledgebase  
## 674 Multi-layered user-facing parallelism  
## 675 Front-line incremental access  
## 676 Open-architected zero administration secured line  
## 677 Mandatory disintermediate info-mediaries  
## 678 Implemented context-sensitive Local Area Network  
## 679 Digitized interactive initiative  
## 680 Implemented asynchronous application  
## 681 Focused multi-state workforce  
## 682 Proactive secondary monitoring  
## 683 Front-line upward-trending groupware  
## 684 Quality-focused 5thgeneration orchestration  
## 685 Multi-layered secondary software  
## 686 Total coherent superstructure  
## 687 Monitored executive architecture  
## 688 Front-line multi-state hub  
## 689 Configurable mission-critical algorithm  
## 690 Face-to-face responsive alliance  
## 691 Reduced holistic help-desk  
## 692 Pre-emptive content-based frame  
## 693 Optional full-range projection  
## 694 Expanded value-added emulation  
## 695 Organic well-modulated database  
## 696 Organic 3rdgeneration encryption  
## 697 Stand-alone empowering benchmark  
## 698 Monitored intermediate circuit  
## 699 Object-based leadingedge complexity  
## 700 Digitized zero-defect implementation  
## 701 Configurable impactful firmware  
## 702 Face-to-face dedicated flexibility  
## 703 Fully-configurable 5thgeneration circuit  
## 704 Configurable impactful capacity  
## 705 Distributed leadingedge orchestration  
## 706 Persistent even-keeled application  
## 707 Optimized attitude-oriented initiative  
## 708 Multi-channeled 3rdgeneration model  
## 709 Polarized mission-critical structure  
## 710 Virtual executive implementation  
## 711 Enhanced intermediate standardization  
## 712 Realigned tangible collaboration  
## 713 Cloned dedicated analyzer  
## 714 Ameliorated well-modulated complexity  
## 715 Quality-focused bi-directional throughput  
## 716 Versatile solution-oriented secured line  
## 717 Phased leadingedge budgetary management  
## 718 Devolved exuding Local Area Network  
## 719 Front-line bandwidth-monitored capacity  
## 720 User-centric solution-oriented emulation  
## 721 Phased hybrid intranet  
## 722 Monitored zero administration collaboration  
## 723 Team-oriented systematic installation  
## 724 Inverse national core  
## 725 Secured uniform instruction set  
## 726 Quality-focused zero tolerance matrices  
## 727 Multi-tiered heuristic strategy  
## 728 Optimized static archive  
## 729 Advanced didactic conglomeration  
## 730 Synergistic discrete middleware  
## 731 Pre-emptive client-server installation  
## 732 Multi-channeled attitude-oriented toolset  
## 733 Decentralized 24hour approach  
## 734 Organic next generation matrix  
## 735 Multi-channeled non-volatile website  
## 736 Distributed bifurcated challenge  
## 737 Customizable zero-defect Internet solution  
## 738 Self-enabling zero administration neural-net  
## 739 Optimized upward-trending productivity  
## 740 Open-architected system-worthy ability  
## 741 Quality-focused maximized extranet  
## 742 Centralized client-driven workforce  
## 743 De-engineered intangible flexibility  
## 744 Re-engineered intangible software  
## 745 Sharable secondary Graphical User Interface  
## 746 Innovative homogeneous alliance  
## 747 Diverse leadingedge website  
## 748 Optimized intermediate help-desk  
## 749 Sharable reciprocal project  
## 750 Proactive interactive service-desk  
## 751 Open-architected needs-based customer loyalty  
## 752 Multi-lateral motivating circuit  
## 753 Assimilated encompassing portal  
## 754 Cross-group global orchestration  
## 755 Down-sized bandwidth-monitored core  
## 756 Monitored explicit hierarchy  
## 757 Reactive demand-driven strategy  
## 758 Universal empowering adapter  
## 759 Team-oriented bi-directional secured line  
## 760 Stand-alone radical throughput  
## 761 Inverse zero-defect capability  
## 762 Multi-tiered real-time implementation  
## 763 Front-line zero-defect array  
## 764 Mandatory 4thgeneration structure  
## 765 Synergistic asynchronous superstructure  
## 766 Vision-oriented system-worthy forecast  
## 767 Digitized radical architecture  
## 768 Quality-focused optimizing parallelism  
## 769 Exclusive discrete firmware  
## 770 Right-sized solution-oriented benchmark  
## 771 Assimilated stable encryption  
## 772 Configurable dynamic secured line  
## 773 Cloned optimal leverage  
## 774 Decentralized client-driven data-warehouse  
## 775 Multi-tiered interactive neural-net  
## 776 Enhanced methodical database  
## 777 Ameliorated leadingedge help-desk  
## 778 De-engineered attitude-oriented projection  
## 779 Persevering 5thgeneration knowledge user  
## 780 Extended grid-enabled hierarchy  
## 781 Reactive tangible contingency  
## 782 Decentralized attitude-oriented interface  
## 783 Mandatory coherent groupware  
## 784 Fully-configurable eco-centric frame  
## 785 Advanced disintermediate data-warehouse  
## 786 Quality-focused zero-defect data-warehouse  
## 787 Cross-group non-volatile secured line  
## 788 Expanded modular application  
## 789 Triple-buffered systematic info-mediaries  
## 790 Networked non-volatile synergy  
## 791 Fully-configurable clear-thinking throughput  
## 792 Front-line actuating functionalities  
## 793 Compatible composite project  
## 794 Customer-focused solution-oriented software  
## 795 Inverse stable synergy  
## 796 Pre-emptive well-modulated moderator  
## 797 Intuitive modular system engine  
## 798 Centralized value-added hierarchy  
## 799 Assimilated hybrid initiative  
## 800 Optimized coherent Internet solution  
## 801 Versatile 6thgeneration parallelism  
## 802 Configurable impactful productivity  
## 803 Operative full-range forecast  
## 804 Operative secondary functionalities  
## 805 Business-focused transitional solution  
## 806 Ameliorated intermediate Graphical User Interface  
## 807 Managed 24hour analyzer  
## 808 Horizontal client-server database  
## 809 Implemented didactic support  
## 810 Digitized homogeneous core  
## 811 Robust holistic application  
## 812 Synergized uniform hierarchy  
## 813 Pre-emptive client-driven secured line  
## 814 Front-line even-keeled website  
## 815 Persistent fault-tolerant service-desk  
## 816 Integrated leadingedge frame  
## 817 Ameliorated coherent open architecture  
## 818 Vision-oriented bifurcated contingency  
## 819 Up-sized maximized model  
## 820 Organized global flexibility  
## 821 Re-engineered zero-defect open architecture  
## 822 Balanced executive definition  
## 823 Networked logistical info-mediaries  
## 824 Optimized multimedia website  
## 825 Focused coherent success  
## 826 Robust context-sensitive neural-net  
## 827 Intuitive zero administration adapter  
## 828 Synchronized full-range portal  
## 829 Integrated encompassing support  
## 830 Devolved human-resource circuit  
## 831 Grass-roots transitional flexibility  
## 832 Vision-oriented methodical support  
## 833 Integrated impactful groupware  
## 834 Face-to-face methodical intranet  
## 835 Fundamental tangible moratorium  
## 836 Balanced mobile Local Area Network  
## 837 Realigned 24/7 core  
## 838 Fully-configurable high-level groupware  
## 839 Ameliorated discrete extranet  
## 840 Centralized asynchronous portal  
## 841 Enhanced tertiary utilization  
## 842 Balanced disintermediate conglomeration  
## 843 Sharable value-added solution  
## 844 Networked impactful framework  
## 845 Public-key impactful neural-net  
## 846 Innovative interactive portal  
## 847 Networked asymmetric infrastructure  
## 848 Assimilated discrete strategy  
## 849 Phased 5thgeneration open system  
## 850 Upgradable logistical flexibility  
## 851 Centralized user-facing service-desk  
## 852 Extended analyzing emulation  
## 853 Front-line methodical utilization  
## 854 Open-source scalable protocol  
## 855 Networked local secured line  
## 856 Programmable empowering orchestration  
## 857 Enhanced systemic benchmark  
## 858 Focused web-enabled Graphical User Interface  
## 859 Automated stable help-desk  
## 860 Managed national hardware  
## 861 Re-engineered composite moratorium  
## 862 Phased fault-tolerant definition  
## 863 Pre-emptive next generation Internet solution  
## 864 Reverse-engineered web-enabled support  
## 865 Horizontal intermediate monitoring  
## 866 Intuitive transitional artificial intelligence  
## 867 Business-focused asynchronous budgetary management  
## 868 Decentralized methodical capability  
## 869 Synergized intangible open system  
## 870 Stand-alone logistical service-desk  
## 871 Expanded full-range synergy  
## 872 Open-architected intangible strategy  
## 873 Diverse directional hardware  
## 874 Balanced discrete approach  
## 875 Total bi-directional success  
## 876 Object-based motivating instruction set  
## 877 Realigned intermediate application  
## 878 Sharable encompassing database  
## 879 Progressive 24/7 definition  
## 880 Pre-emptive next generation strategy  
## 881 Open-source 5thgeneration leverage  
## 882 Open-source holistic productivity  
## 883 Multi-channeled scalable moratorium  
## 884 Optional tangible productivity  
## 885 Up-sized intangible circuit  
## 886 Virtual homogeneous budgetary management  
## 887 Phased zero-defect portal  
## 888 Optional modular throughput  
## 889 Triple-buffered human-resource complexity  
## 890 Innovative cohesive pricing structure  
## 891 Function-based executive moderator  
## 892 Digitized content-based circuit  
## 893 Balanced uniform algorithm  
## 894 Triple-buffered foreground encryption  
## 895 Front-line system-worthy flexibility  
## 896 Centralized clear-thinking Graphic Interface  
## 897 Optimized 5thgeneration moratorium  
## 898 Fully-configurable asynchronous firmware  
## 899 Exclusive systematic algorithm  
## 900 Exclusive cohesive intranet  
## 901 Vision-oriented asynchronous Internet solution  
## 902 Sharable 5thgeneration access  
## 903 Monitored homogeneous artificial intelligence  
## 904 Monitored 24/7 moratorium  
## 905 Vision-oriented real-time framework  
## 906 Future-proofed stable function  
## 907 Secured encompassing Graphical User Interface  
## 908 Right-sized logistical middleware  
## 909 Team-oriented executive core  
## 910 Vision-oriented next generation solution  
## 911 Enhanced optimizing website  
## 912 Reduced background data-warehouse  
## 913 Right-sized mobile initiative  
## 914 Synergized grid-enabled framework  
## 915 Open-source stable paradigm  
## 916 Reverse-engineered context-sensitive emulation  
## 917 Public-key disintermediate emulation  
## 918 Up-sized bifurcated capability  
## 919 Stand-alone background open system  
## 920 Stand-alone explicit orchestration  
## 921 Configurable asynchronous application  
## 922 Upgradable 4thgeneration portal  
## 923 Networked client-server solution  
## 924 Public-key bi-directional Graphical User Interface  
## 925 Re-contextualized human-resource success  
## 926 Front-line fresh-thinking installation  
## 927 Balanced empowering success  
## 928 Robust uniform framework  
## 929 Sharable upward-trending support  
## 930 Assimilated multi-state paradigm  
## 931 Self-enabling local strategy  
## 932 Open-source local approach  
## 933 Polarized intangible encoding  
## 934 Multi-lateral attitude-oriented adapter  
## 935 Multi-lateral 24/7 Internet solution  
## 936 Profit-focused secondary portal  
## 937 Reactive upward-trending migration  
## 938 Customer-focused fault-tolerant implementation  
## 939 Customizable homogeneous contingency  
## 940 Versatile next generation pricing structure  
## 941 Cross-group systemic customer loyalty  
## 942 Face-to-face modular budgetary management  
## 943 Proactive non-volatile encryption  
## 944 Decentralized bottom-line help-desk  
## 945 Visionary mission-critical application  
## 946 User-centric attitude-oriented adapter  
## 947 User-centric discrete success  
## 948 Total even-keeled architecture  
## 949 Focused multimedia implementation  
## 950 Stand-alone well-modulated product  
## 951 Ameliorated bandwidth-monitored contingency  
## 952 Streamlined homogeneous analyzer  
## 953 Total coherent archive  
## 954 Front-line neutral alliance  
## 955 Virtual context-sensitive support  
## 956 Re-engineered optimal policy  
## 957 Implemented uniform synergy  
## 958 Horizontal even-keeled challenge  
## 959 Innovative regional groupware  
## 960 Exclusive multi-state Internet solution  
## 961 Mandatory empowering focus group  
## 962 Proactive 5thgeneration frame  
## 963 Automated full-range Internet solution  
## 964 Fully-configurable systemic productivity  
## 965 Multi-lateral multi-state encryption  
## 966 Intuitive global website  
## 967 Exclusive disintermediate Internet solution  
## 968 Ameliorated actuating workforce  
## 969 Synergized clear-thinking protocol  
## 970 Triple-buffered multi-state complexity  
## 971 Enhanced intangible portal  
## 972 Down-sized background groupware  
## 973 Switchable real-time product  
## 974 Ameliorated local workforce  
## 975 Streamlined exuding adapter  
## 976 Business-focused user-facing benchmark  
## 977 Reactive bi-directional standardization  
## 978 Virtual bifurcated portal  
## 979 Integrated 3rdgeneration monitoring  
## 980 Balanced responsive open system  
## 981 Focused incremental Graphic Interface  
## 982 Secured 24hour policy  
## 983 Up-sized asymmetric firmware  
## 984 Distributed fault-tolerant service-desk  
## 985 Vision-oriented human-resource synergy  
## 986 Customer-focused explicit challenge  
## 987 Synchronized human-resource moderator  
## 988 Open-architected full-range projection  
## 989 Versatile local forecast  
## 990 Ameliorated user-facing help-desk  
## 991 Enterprise-wide tangible model  
## 992 Versatile mission-critical application  
## 993 Extended leadingedge solution  
## 994 Phased zero tolerance extranet  
## 995 Front-line bifurcated ability  
## 996 Fundamental modular algorithm  
## 997 Grass-roots cohesive monitoring  
## 998 Expanded intangible solution  
## 999 Proactive bandwidth-monitored policy  
## 1000 Virtual 5thgeneration emulation  
## City Gender  
## 1 Wrightburgh 0  
## 2 West Jodi 1  
## 3 Davidton 0  
## 4 West Terrifurt 1  
## 5 South Manuel 0  
## 6 Jamieberg 1  
## 7 Brandonstad 0  
## 8 Port Jefferybury 1  
## 9 West Colin 1  
## 10 Ramirezton 1  
## 11 West Brandonton 0  
## 12 East Theresashire 1  
## 13 West Katiefurt 1  
## 14 North Tara 0  
## 15 West William 0  
## 16 New Travistown 1  
## 17 West Dylanberg 0  
## 18 Pruittmouth 0  
## 19 Jessicastad 1  
## 20 Millertown 1  
## 21 Port Jacqueline 1  
## 22 Lake Nicole 1  
## 23 South John 0  
## 24 Pamelamouth 1  
## 25 Harperborough 0  
## 26 Port Danielleberg 1  
## 27 West Jeremyside 1  
## 28 South Cathyfurt 0  
## 29 Palmerside 0  
## 30 West Guybury 0  
## 31 Phelpschester 1  
## 32 Lake Melindamouth 1  
## 33 North Richardburgh 1  
## 34 Port Cassie 0  
## 35 New Thomas 1  
## 36 Johnstad 0  
## 37 West Aprilport 1  
## 38 Kellytown 0  
## 39 Charlesport 1  
## 40 Millerchester 0  
## 41 Mackenziemouth 0  
## 42 Zacharystad 0  
## 43 North Joshua 1  
## 44 Bowenview 0  
## 45 Jamesberg 0  
## 46 Lake Cassandraport 1  
## 47 New Sharon 1  
## 48 Johnport 0  
## 49 Hamiltonfort 1  
## 50 West Christopher 0  
## 51 Hollandberg 1  
## 52 Odomville 0  
## 53 East Samanthashire 1  
## 54 South Lauraton 1  
## 55 Amandahaven 0  
## 56 Thomasview 0  
## 57 Garciaside 0  
## 58 Port Sarahshire 0  
## 59 Port Gregory 0  
## 60 Brendachester 0  
## 61 Lake Amy 0  
## 62 Lake Annashire 1  
## 63 Smithburgh 0  
## 64 North Leonmouth 1  
## 65 Robertfurt 0  
## 66 Jasminefort 1  
## 67 Jensenborough 0  
## 68 Bradleyburgh 0  
## 69 New Sheila 1  
## 70 North Regina 0  
## 71 Davidmouth 0  
## 72 New Michaeltown 0  
## 73 East Tammie 1  
## 74 Wilcoxport 1  
## 75 East Michaelmouth 1  
## 76 East Tiffanyport 0  
## 77 Ramirezhaven 1  
## 78 Cranemouth 1  
## 79 Lake Edward 1  
## 80 Lake Conniefurt 0  
## 81 East Shawnchester 1  
## 82 West Joseph 1  
## 83 Lake Christopherfurt 0  
## 84 East Tylershire 0  
## 85 Sharpberg 0  
## 86 Lake Dustin 0  
## 87 North Kristine 0  
## 88 Grahamberg 1  
## 89 New Tina 0  
## 90 Nelsonfurt 1  
## 91 Christopherport 0  
## 92 Port Sarahhaven 0  
## 93 Bradleyborough 1  
## 94 Whiteport 1  
## 95 New Theresa 1  
## 96 Wongland 0  
## 97 Williammouth 1  
## 98 Williamsborough 0  
## 99 North Michael 0  
## 100 Benjaminchester 1  
## 101 Hernandezville 0  
## 102 Youngburgh 1  
## 103 Wallacechester 0  
## 104 Sanchezmouth 1  
## 105 Bradshawborough 0  
## 106 Amyhaven 1  
## 107 Marcushaven 1  
## 108 Erinton 0  
## 109 Hughesport 0  
## 110 Johnstad 0  
## 111 New Lucasburgh 0  
## 112 Michelleside 1  
## 113 Andersonton 0  
## 114 New Rachel 1  
## 115 Port Susan 1  
## 116 West Angelabury 1  
## 117 Port Christopherborough 0  
## 118 Phillipsbury 1  
## 119 Millerside 0  
## 120 Lake Jessica 0  
## 121 Lopezmouth 1  
## 122 Johnsport 0  
## 123 South Ronald 0  
## 124 South Daniel 0  
## 125 Suzannetown 0  
## 126 Lisaberg 0  
## 127 Brianfurt 0  
## 128 Stewartbury 0  
## 129 Benjaminchester 0  
## 130 North Wesleychester 0  
## 131 East Michelleberg 0  
## 132 Port Eric 0  
## 133 Timothyfurt 0  
## 134 Port Jeffrey 0  
## 135 Guzmanland 0  
## 136 East Michele 1  
## 137 East John 0  
## 138 Lesliebury 1  
## 139 Patriciahaven 1  
## 140 Ashleychester 1  
## 141 Lake Josetown 0  
## 142 Debraburgh 1  
## 143 New Debbiestad 1  
## 144 West Shaun 1  
## 145 Kimberlyhaven 0  
## 146 Port Lawrence 1  
## 147 West Ricardo 1  
## 148 Lake Jose 1  
## 149 Heatherberg 0  
## 150 South George 0  
## 151 Tinachester 1  
## 152 Port Jodi 0  
## 153 Jonathantown 1  
## 154 Sylviaview 0  
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## 169 Samanthaland 1  
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## 171 Kyleborough 1  
## 172 North Randy 1  
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## 194 South Tiffanyton 1  
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## 197 West Casey 1  
## 198 East Henry 1  
## 199 Hollyfurt 1  
## 200 North Anna 0  
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## 203 North Johntown 1  
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## 20 Russian Federation 2016-02-27 04:43:07  
## 21 Cameroon 2016-01-05 07:52:48  
## 22 Cameroon 2016-03-18 13:22:35  
## 23 Burundi 2016-05-20 08:49:33  
## 24 Korea 2016-03-23 09:43:43  
## 25 Tokelau 2016-06-13 17:27:09  
## 26 Monaco 2016-05-27 15:25:52  
## 27 Tuvalu 2016-02-08 10:46:14  
## 28 Greece 2016-07-19 08:32:10  
## 29 British Virgin Islands 2016-04-14 05:08:35  
## 30 Bouvet Island (Bouvetoya) 2016-01-27 12:38:16  
## 31 Peru 2016-07-02 20:23:15  
## 32 Aruba 2016-03-01 22:13:37  
## 33 Maldives 2016-07-15 05:05:14  
## 34 Senegal 2016-01-14 14:00:09  
## 35 Dominica 2016-03-15 03:12:25  
## 36 Luxembourg 2016-04-12 03:26:39  
## 37 Montenegro 2016-04-07 15:18:10  
## 38 Ukraine 2016-02-09 05:28:18  
## 39 Saint Helena 2016-05-07 17:11:49  
## 40 Liberia 2016-03-11 06:49:10  
## 41 Russian Federation 2016-04-27 09:27:58  
## 42 Tunisia 2016-04-16 11:53:43  
## 43 Turkmenistan 2016-05-08 15:38:46  
## 44 Saint Helena 2016-02-08 00:23:38  
## 45 Niger 2016-02-11 13:26:22  
## 46 Turkmenistan 2016-02-17 13:16:33  
## 47 Qatar 2016-02-26 22:46:43  
## 48 Sri Lanka 2016-06-08 18:54:01  
## 49 Trinidad and Tobago 2016-01-08 09:32:26  
## 50 Italy 2016-04-25 11:01:54  
## 51 British Virgin Islands 2016-04-04 07:07:46  
## 52 United Kingdom 2016-05-03 21:19:58  
## 53 Guinea-Bissau 2016-01-17 09:31:36  
## 54 Micronesia 2016-03-02 04:57:51  
## 55 Turkey 2016-02-14 07:36:58  
## 56 Croatia 2016-04-07 03:56:16  
## 57 Israel 2016-02-17 11:42:00  
## 58 Svalbard & Jan Mayen Islands 2016-04-10 00:13:47  
## 59 Azerbaijan 2016-02-14 17:05:15  
## 60 Iran 2016-05-26 22:49:47  
## 61 Burundi 2016-04-30 08:07:13  
## 62 Saint Vincent and the Grenadines 2016-06-15 05:30:13  
## 63 Burundi 2016-03-09 14:45:33  
## 64 Bulgaria 2016-03-31 20:55:22  
## 65 Christmas Island 2016-06-03 00:55:23  
## 66 Canada 2016-03-10 23:36:03  
## 67 Rwanda 2016-01-08 00:17:27  
## 68 Turks and Caicos Islands 2016-06-05 22:11:34  
## 69 Tunisia 2016-01-16 11:35:01  
## 70 Norfolk Island 2016-04-22 20:10:22  
## 71 Bouvet Island (Bouvetoya) 2016-02-01 09:00:55  
## 72 Turks and Caicos Islands 2016-07-07 13:37:34  
## 73 Cook Islands 2016-03-08 00:37:54  
## 74 Turkey 2016-05-10 17:39:06  
## 75 Guatemala 2016-04-06 11:24:21  
## 76 Cote d'Ivoire 2016-04-01 16:21:05  
## 77 Faroe Islands 2016-01-05 04:18:46  
## 78 Qatar 2016-05-20 21:31:24  
## 79 Ireland 2016-02-03 07:59:16  
## 80 Ukraine 2016-02-17 21:55:29  
## 81 Moldova 2016-01-30 16:10:04  
## 82 Nicaragua 2016-05-15 14:41:49  
## 83 Montserrat 2016-01-05 17:56:52  
## 84 Timor-Leste 2016-04-19 07:34:28  
## 85 Bouvet Island (Bouvetoya) 2016-03-15 15:49:14  
## 86 Puerto Rico 2016-06-12 15:25:44  
## 87 Central African Republic 2016-07-01 04:41:57  
## 88 Venezuela 2016-05-08 12:12:04  
## 89 Australia 2016-03-14 23:13:11  
## 90 Wallis and Futuna 2016-05-25 00:19:57  
## 91 Jersey 2016-05-13 11:51:10  
## 92 Puerto Rico 2016-02-20 20:47:05  
## 93 Samoa 2016-05-22 20:49:37  
## 94 Greece 2016-04-10 02:02:36  
## 95 Antarctica (the territory South of 60 deg S) 2016-02-28 06:41:44  
## 96 Albania 2016-07-08 21:18:32  
## 97 Hong Kong 2016-04-19 15:14:58  
## 98 Lithuania 2016-01-08 22:47:10  
## 99 Egypt 2016-03-28 08:46:26  
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## 101 Western Sahara 2016-07-03 09:22:30  
## 102 Serbia 2016-06-01 09:27:34  
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## 108 Christmas Island 2016-04-28 05:50:25  
## 109 Guinea 2016-04-03 05:10:31  
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## 111 Madagascar 2016-01-16 23:37:51  
## 112 Lebanon 2016-07-03 04:33:41  
## 113 Eritrea 2016-03-14 06:46:14  
## 114 Guyana 2016-01-09 05:44:56  
## 115 Trinidad and Tobago 2016-02-11 04:37:34  
## 116 Jersey 2016-06-22 07:33:21  
## 117 United Arab Emirates 2016-07-13 16:12:24  
## 118 Martinique 2016-07-23 11:46:28  
## 119 Somalia 2016-07-13 04:10:53  
## 120 Bhutan 2016-06-11 18:32:12  
## 121 Greece 2016-05-08 12:51:00  
## 122 Benin 2016-04-07 16:02:02  
## 123 Papua New Guinea 2016-02-04 13:30:32  
## 124 Uzbekistan 2016-02-26 19:48:23  
## 125 South Africa 2016-06-21 13:15:21  
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## 127 Hungary 2016-04-18 15:54:33  
## 128 Falkland Islands (Malvinas) 2016-04-03 10:07:56  
## 129 Dominica 2016-04-04 21:30:46  
## 130 Jersey 2016-07-06 16:00:33  
## 131 Lithuania 2016-05-04 09:00:24  
## 132 Saint Martin 2016-06-13 18:50:00  
## 133 Cuba 2016-01-03 16:01:40  
## 134 United States Minor Outlying Islands 2016-01-14 00:23:10  
## 135 Belize 2016-01-12 10:07:29  
## 136 Belize 2016-04-16 12:09:25  
## 137 Antarctica (the territory South of 60 deg S) 2016-05-13 06:09:28  
## 138 Saint Vincent and the Grenadines 2016-03-27 23:59:06  
## 139 Kuwait 2016-02-03 23:47:56  
## 140 Thailand 2016-04-18 11:23:05  
## 141 Gibraltar 2016-02-05 19:06:01  
## 142 Holy See (Vatican City State) 2016-03-21 18:46:41  
## 143 Korea 2016-06-14 11:59:58  
## 144 Saint Helena 2016-02-06 23:08:57  
## 145 Turks and Caicos Islands 2016-03-12 01:39:19  
## 146 Czech Republic 2016-01-26 03:56:18  
## 147 Netherlands 2016-02-07 08:02:31  
## 148 Belarus 2016-05-05 07:58:22  
## 149 Dominica 2016-06-29 02:43:29  
## 150 South Africa 2016-04-10 19:48:01  
## 151 New Zealand 2016-02-10 06:37:56  
## 152 Togo 2016-05-28 20:41:50  
## 153 Kenya 2016-03-24 06:36:52  
## 154 Palau 2016-02-12 22:51:08  
## 155 Timor-Leste 2016-06-10 10:11:00  
## 156 Cambodia 2016-03-31 10:44:46  
## 157 Belize 2016-02-14 06:51:43  
## 158 Cuba 2016-01-07 19:16:05  
## 159 Costa Rica 2016-02-04 02:13:52  
## 160 Liechtenstein 2016-05-09 02:58:58  
## 161 Korea 2016-06-23 00:16:02  
## 162 Ukraine 2016-06-20 09:35:02  
## 163 Angola 2016-02-29 12:31:57  
## 164 Nauru 2016-01-17 15:10:31  
## 165 Equatorial Guinea 2016-01-29 03:54:19  
## 166 Mongolia 2016-07-14 12:07:10  
## 167 Svalbard & Jan Mayen Islands 2016-01-10 23:14:30  
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## 169 Brazil 2016-07-06 18:36:01  
## 170 Chad 2016-05-27 06:19:27  
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## 175 Guinea 2016-06-23 01:22:43  
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## 177 Kuwait 2016-02-28 18:52:44  
## 178 Rwanda 2016-02-10 06:52:07  
## 179 China 2016-03-27 09:11:10  
## 180 Bouvet Island (Bouvetoya) 2016-05-23 02:15:04  
## 181 Vietnam 2016-01-03 03:22:15  
## 182 Guatemala 2016-01-04 21:48:38  
## 183 Peru 2016-05-24 13:30:38  
## 184 Mayotte 2016-02-01 19:42:40  
## 185 Samoa 2016-06-05 13:16:24  
## 186 Singapore 2016-02-04 08:53:37  
## 187 Jamaica 2016-03-24 13:37:53  
## 188 Bahamas 2016-06-02 21:02:22  
## 189 Canada 2016-02-21 07:42:48  
## 190 Algeria 2016-06-26 17:16:26  
## 191 Fiji 2016-01-03 05:34:33  
## 192 Kenya 2016-03-08 18:00:43  
## 193 Argentina 2016-06-19 03:19:44  
## 194 Bouvet Island (Bouvetoya) 2016-07-21 21:16:35  
## 195 Philippines 2016-02-12 20:36:40  
## 196 Senegal 2016-05-17 06:14:20  
## 197 Suriname 2016-07-09 11:04:54  
## 198 Liberia 2016-03-27 02:35:29  
## 199 Guam 2016-01-16 08:01:40  
## 200 United Arab Emirates 2016-01-21 23:48:29  
## 201 Antigua and Barbuda 2016-06-05 00:29:13  
## 202 Argentina 2016-02-13 15:37:36  
## 203 Georgia 2016-05-10 07:22:37  
## 204 Jordan 2016-03-27 03:59:26  
## 205 Saudi Arabia 2016-05-24 18:35:58  
## 206 South Africa 2016-02-11 02:40:02  
## 207 Croatia 2016-04-22 08:31:24  
## 208 Fiji 2016-01-13 02:58:27  
## 209 Australia 2016-06-16 02:01:24  
## 210 Sao Tome and Principe 2016-06-27 18:37:04  
## 211 Fiji 2016-07-03 12:57:03  
## 212 Cyprus 2016-02-03 04:21:14  
## 213 Kyrgyz Republic 2016-05-29 21:17:10  
## 214 Pakistan 2016-04-03 21:13:46  
## 215 Seychelles 2016-04-15 11:51:14  
## 216 Samoa 2016-06-21 03:14:41  
## 217 Bulgaria 2016-03-14 14:13:05  
## 218 Mauritania 2016-05-06 21:07:31  
## 219 Czech Republic 2016-06-12 17:52:43  
## 220 Chile 2016-01-11 07:36:22  
## 221 Poland 2016-07-02 00:24:22  
## 222 Estonia 2016-03-04 10:13:48  
## 223 Turkmenistan 2016-03-24 09:12:52  
## 224 Latvia 2016-02-14 07:30:24  
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## 230 Brunei Darussalam 2016-04-27 04:28:17  
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## 252 Switzerland 2016-01-05 09:42:22  
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## 255 France 2016-01-09 04:53:22  
## 256 Venezuela 2016-01-06 13:20:01  
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## 259 Turkey 2016-05-15 20:48:40  
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## 269 Japan 2016-02-01 14:37:34  
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## 271 Sao Tome and Principe 2016-04-23 06:28:43  
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## 283 Lebanon 2016-05-05 09:28:36  
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## 285 American Samoa 2016-05-21 01:36:16  
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## 287 Tonga 2016-07-05 18:59:45  
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## 292 Taiwan 2016-05-29 07:29:27  
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## 301 Holy See (Vatican City State) 2016-05-22 00:01:58  
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## 322 Congo 2016-02-16 18:21:36  
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## 339 Indonesia 2016-03-13 13:50:25  
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## 341 Eritrea 2016-04-18 00:49:33  
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## 343 Gibraltar 2016-02-17 07:05:57  
## 344 Haiti 2016-06-16 02:33:22  
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## 346 Eritrea 2016-03-18 17:35:40  
## 347 Hong Kong 2016-05-11 22:02:17  
## 348 Gambia 2016-05-25 20:10:02  
## 349 Barbados 2016-02-29 19:26:35  
## 350 Nauru 2016-06-09 14:24:06  
## 351 Peru 2016-01-30 16:15:29  
## 352 El Salvador 2016-02-15 05:35:54  
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## 355 Saint Barthelemy 2016-05-31 02:17:18  
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## 373 Greece 2016-05-15 13:18:34  
## 374 Cote d'Ivoire 2016-04-08 22:48:25  
## 375 Pakistan 2016-01-19 12:18:13  
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## 377 Cyprus 2016-01-26 15:56:55  
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## 383 Gabon 2016-06-19 22:08:15  
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## 409 Faroe Islands 2016-06-28 12:51:02  
## 410 Taiwan 2016-06-18 16:32:58  
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## 412 Israel 2016-01-16 16:40:30  
## 413 Bolivia 2016-07-11 15:45:23  
## 414 Bahamas 2016-07-16 23:08:54  
## 415 Costa Rica 2016-04-06 21:20:07  
## 416 Myanmar 2016-07-05 00:54:11  
## 417 Netherlands Antilles 2016-02-17 23:47:00  
## 418 Czech Republic 2016-03-15 17:33:15  
## 419 Iceland 2016-01-21 18:51:01  
## 420 Palau 2016-06-06 22:41:24  
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## 425 Congo 2016-05-26 13:43:05  
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## 444 Greenland 2016-07-03 22:13:19  
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## 453 Portugal 2016-01-01 02:52:10  
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## 455 Germany 2016-02-03 10:40:27  
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## 459 Equatorial Guinea 2016-02-14 22:23:30  
## 460 Micronesia 2016-07-17 22:04:54  
## 461 Malta 2016-06-02 22:16:08  
## 462 Ecuador 2016-04-30 19:42:04  
## 463 Sudan 2016-04-17 06:58:18  
## 464 Lao People's Democratic Republic 2016-03-09 00:41:46  
## 465 Saint Vincent and the Grenadines 2016-03-07 20:02:51  
## 466 Switzerland 2016-05-26 10:33:00  
## 467 Spain 2016-07-18 01:36:37  
## 468 Turks and Caicos Islands 2016-07-16 05:56:42  
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## 486 Indonesia 2016-03-23 19:58:15  
## 487 Croatia 2016-02-02 11:49:18  
## 488 Brunei Darussalam 2016-03-08 10:39:16  
## 489 American Samoa 2016-04-08 14:35:44  
## 490 Netherlands Antilles 2016-06-30 00:40:31  
## 491 Thailand 2016-03-25 19:02:35  
## 492 Greece 2016-05-12 21:32:06  
## 493 French Polynesia 2016-03-02 05:11:01  
## 494 Guernsey 2016-05-10 14:12:31  
## 495 Isle of Man 2016-03-03 02:59:37  
## 496 Holy See (Vatican City State) 2016-07-04 11:03:49  
## 497 El Salvador 2016-07-08 03:47:41  
## 498 China 2016-05-27 05:35:27  
## 499 Myanmar 2016-02-10 13:46:35  
## 500 Macao 2016-06-12 21:21:53  
## 501 Australia 2016-01-07 13:58:51  
## 502 United States Virgin Islands 2016-05-13 14:12:39  
## 503 Mexico 2016-05-02 00:01:56  
## 504 Djibouti 2016-02-07 17:06:35  
## 505 Cote d'Ivoire 2016-02-15 07:27:41  
## 506 Mali 2016-02-21 05:23:28  
## 507 Jamaica 2016-03-20 22:27:25  
## 508 Romania 2016-03-24 09:34:00  
## 509 Cayman Islands 2016-04-04 20:01:12  
## 510 Gambia 2016-01-02 04:50:44  
## 511 Algeria 2016-07-08 17:14:01  
## 512 Puerto Rico 2016-03-28 19:48:37  
## 513 Norfolk Island 2016-07-11 09:32:53  
## 514 Turkey 2016-06-09 17:11:02  
## 515 Guinea 2016-05-19 09:30:12  
## 516 Moldova 2016-04-12 12:35:39  
## 517 Greece 2016-07-04 23:17:47  
## 518 American Samoa 2016-02-01 00:52:29  
## 519 Honduras 2016-01-13 02:39:00  
## 520 Mongolia 2016-06-18 16:02:34  
## 521 Ethiopia 2016-01-01 20:17:49  
## 522 Ethiopia 2016-03-02 04:02:45  
## 523 Sri Lanka 2016-03-30 20:23:48  
## 524 Morocco 2016-05-01 00:23:13  
## 525 United Arab Emirates 2016-06-17 03:02:55  
## 526 Western Sahara 2016-03-23 08:52:31  
## 527 Western Sahara 2016-05-08 22:24:27  
## 528 Cambodia 2016-04-06 05:55:43  
## 529 New Zealand 2016-04-05 05:54:15  
## 530 Australia 2016-04-16 12:26:31  
## 531 Bulgaria 2016-06-01 03:44:42  
## 532 Libyan Arab Jamahiriya 2016-04-04 22:00:15  
## 533 Barbados 2016-06-26 04:22:26  
## 534 French Polynesia 2016-07-07 03:55:01  
## 535 Uruguay 2016-03-20 08:22:50  
## 536 Uruguay 2016-04-20 10:04:29  
## 537 Brazil 2016-03-25 05:05:27  
## 538 Venezuela 2016-02-14 07:15:37  
## 539 Myanmar 2016-03-26 00:32:02  
## 540 Malta 2016-07-05 22:33:48  
## 541 Jamaica 2016-03-14 03:29:12  
## 542 Bahrain 2016-05-30 02:34:25  
## 543 Algeria 2016-03-07 22:32:15  
## 544 Tuvalu 2016-03-19 00:27:58  
## 545 Georgia 2016-06-18 05:17:33  
## 546 Cambodia 2016-07-11 18:12:43  
## 547 Guam 2016-01-01 08:27:06  
## 548 Tanzania 2016-04-07 01:57:38  
## 549 Indonesia 2016-02-28 22:02:14  
## 550 Somalia 2016-06-26 17:25:55  
## 551 Belize 2016-01-21 04:30:43  
## 552 Serbia 2016-05-01 21:46:37  
## 553 Australia 2016-02-14 10:06:49  
## 554 Guam 2016-01-27 18:25:42  
## 555 Christmas Island 2016-06-16 20:24:33  
## 556 Papua New Guinea 2016-07-21 10:01:50  
## 557 Bahamas 2016-04-21 18:31:27  
## 558 Comoros 2016-07-20 01:56:33  
## 559 Western Sahara 2016-02-26 17:14:14  
## 560 Nicaragua 2016-01-16 17:56:05  
## 561 Guam 2016-04-01 01:57:12  
## 562 Vanuatu 2016-06-24 08:42:20  
## 563 Bolivia 2016-05-27 18:45:35  
## 564 Malawi 2016-05-26 15:40:12  
## 565 Venezuela 2016-04-06 01:19:08  
## 566 Nepal 2016-01-08 19:38:45  
## 567 United Kingdom 2016-02-24 19:08:11  
## 568 Albania 2016-03-10 07:07:31  
## 569 Madagascar 2016-04-29 07:49:01  
## 570 Guyana 2016-04-10 16:08:09  
## 571 Yemen 2016-04-27 18:25:30  
## 572 India 2016-05-10 04:28:55  
## 573 Puerto Rico 2016-01-03 23:21:26  
## 574 United States Virgin Islands 2016-02-15 16:52:04  
## 575 Antigua and Barbuda 2016-03-09 02:07:17  
## 576 French Guiana 2016-01-09 17:33:03  
## 577 Antigua and Barbuda 2016-02-03 05:47:09  
## 578 Turkmenistan 2016-01-02 09:30:11  
## 579 Honduras 2016-01-04 07:28:43  
## 580 Seychelles 2016-01-07 21:21:50  
## 581 Cyprus 2016-07-24 00:22:16  
## 582 Saint Pierre and Miquelon 2016-02-13 13:57:53  
## 583 Poland 2016-05-08 10:25:08  
## 584 Taiwan 2016-02-17 18:50:57  
## 585 Cote d'Ivoire 2016-01-22 19:43:53  
## 586 Micronesia 2016-07-20 13:21:37  
## 587 Liberia 2016-01-05 20:58:42  
## 588 Saudi Arabia 2016-01-29 05:39:16  
## 589 Nepal 2016-06-17 20:18:27  
## 590 Ghana 2016-02-23 13:55:48  
## 591 Iran 2016-07-09 11:18:02  
## 592 New Zealand 2016-03-19 11:09:36  
## 593 Libyan Arab Jamahiriya 2016-01-29 07:14:04  
## 594 Sri Lanka 2016-06-14 07:02:09  
## 595 United Arab Emirates 2016-05-18 03:19:03  
## 596 Indonesia 2016-01-30 09:54:03  
## 597 Saint Vincent and the Grenadines 2016-04-25 16:58:50  
## 598 Mongolia 2016-01-14 16:30:38  
## 599 Honduras 2016-07-06 05:34:52  
## 600 Papua New Guinea 2016-04-07 10:51:05  
## 601 Kyrgyz Republic 2016-04-17 05:08:52  
## 602 Ethiopia 2016-01-28 17:03:54  
## 603 Rwanda 2016-02-18 22:42:33  
## 604 Kyrgyz Republic 2016-06-24 21:09:58  
## 605 Grenada 2016-06-20 04:24:41  
## 606 Togo 2016-02-14 16:33:29  
## 607 Pakistan 2016-02-27 13:51:44  
## 608 Falkland Islands (Malvinas) 2016-05-07 15:16:07  
## 609 Jersey 2016-03-16 20:10:53  
## 610 Cayman Islands 2016-06-26 02:06:59  
## 611 South Africa 2016-07-17 14:26:04  
## 612 Micronesia 2016-01-28 16:42:36  
## 613 Tajikistan 2016-06-16 18:04:51  
## 614 Bolivia 2016-06-19 23:21:38  
## 615 Cameroon 2016-05-24 17:42:58  
## 616 Ecuador 2016-03-01 22:06:37  
## 617 Zambia 2016-01-31 08:50:38  
## 618 Guinea-Bissau 2016-04-30 15:27:22  
## 619 Micronesia 2016-01-13 20:38:35  
## 620 Bahamas 2016-03-30 16:15:59  
## 621 Cape Verde 2016-04-29 18:53:43  
## 622 French Polynesia 2016-06-14 19:48:34  
## 623 Saudi Arabia 2016-07-15 15:43:36  
## 624 France 2016-03-24 05:38:01  
## 625 Burundi 2016-04-26 20:57:48  
## 626 Latvia 2016-01-12 03:28:31  
## 627 Morocco 2016-04-09 23:26:42  
## 628 Venezuela 2016-03-28 09:15:58  
## 629 Palau 2016-06-23 11:05:01  
## 630 Isle of Man 2016-01-24 01:53:14  
## 631 Peru 2016-04-15 10:18:55  
## 632 Belgium 2016-04-26 13:13:20  
## 633 Croatia 2016-05-16 23:21:06  
## 634 France 2016-01-18 02:51:13  
## 635 Slovenia 2016-06-20 08:34:46  
## 636 Peru 2016-07-18 04:53:22  
## 637 Belarus 2016-07-01 01:12:04  
## 638 Bolivia 2016-03-07 22:51:00  
## 639 Benin 2016-05-02 15:31:28  
## 640 Wallis and Futuna 2016-07-23 06:18:51  
## 641 Azerbaijan 2016-06-12 03:11:04  
## 642 Mongolia 2016-02-15 20:41:05  
## 643 Denmark 2016-01-23 01:42:28  
## 644 Russian Federation 2016-02-26 01:18:44  
## 645 Brazil 2016-01-11 02:07:14  
## 646 Ethiopia 2016-04-04 13:56:14  
## 647 Guyana 2016-01-14 09:27:59  
## 648 Ethiopia 2016-04-25 03:18:45  
## 649 Mauritius 2016-03-05 23:02:11  
## 650 Djibouti 2016-01-06 21:43:22  
## 651 Syrian Arab Republic 2016-02-18 03:58:36  
## 652 Saint Martin 2016-04-16 14:15:55  
## 653 Netherlands Antilles 2016-02-24 06:18:11  
## 654 Greece 2016-06-29 01:19:21  
## 655 Madagascar 2016-01-05 06:34:20  
## 656 Senegal 2016-07-16 10:14:04  
## 657 Burkina Faso 2016-06-17 03:23:13  
## 658 Czech Republic 2016-06-13 11:06:40  
## 659 Lao People's Democratic Republic 2016-04-05 08:18:45  
## 660 Netherlands Antilles 2016-04-17 18:38:14  
## 661 Qatar 2016-02-03 16:54:33  
## 662 Andorra 2016-04-18 21:07:28  
## 663 Liechtenstein 2016-06-18 22:31:22  
## 664 China 2016-03-12 07:18:36  
## 665 Vietnam 2016-01-15 01:20:05  
## 666 Tajikistan 2016-02-12 10:39:10  
## 667 Eritrea 2016-02-16 02:29:03  
## 668 Monaco 2016-04-04 21:23:13  
## 669 Israel 2016-04-24 01:48:21  
## 670 Hungary 2016-05-20 00:00:48  
## 671 Singapore 2016-05-15 03:10:50  
## 672 Cuba 2016-01-07 23:02:43  
## 673 Reunion 2016-07-19 12:05:58  
## 674 Zambia 2016-04-04 00:02:20  
## 675 Gabon 2016-06-10 04:21:57  
## 676 Dominica 2016-03-11 14:50:56  
## 677 Bahamas 2016-01-14 20:58:10  
## 678 Tokelau 2016-06-22 05:22:58  
## 679 Turkmenistan 2016-03-19 08:00:58  
## 680 Belgium 2016-04-15 15:07:17  
## 681 French Guiana 2016-03-28 02:29:19  
## 682 Martinique 2016-01-22 15:03:25  
## 683 French Polynesia 2016-06-25 17:33:35  
## 684 Ecuador 2016-03-04 14:33:38  
## 685 Puerto Rico 2016-06-29 02:48:44  
## 686 United Arab Emirates 2016-06-18 01:42:37  
## 687 Burkina Faso 2016-01-31 09:57:34  
## 688 Luxembourg 2016-05-22 15:17:25  
## 689 Jamaica 2016-07-22 11:05:10  
## 690 Antarctica (the territory South of 60 deg S) 2016-07-13 14:05:22  
## 691 China 2016-02-11 11:50:26  
## 692 Western Sahara 2016-03-16 20:33:10  
## 693 Lebanon 2016-04-25 19:31:39  
## 694 Hong Kong 2016-07-14 22:43:29  
## 695 Vanuatu 2016-05-30 08:02:35  
## 696 Vanuatu 2016-02-14 11:36:08  
## 697 Guatemala 2016-01-23 21:15:57  
## 698 Greenland 2016-07-18 02:51:19  
## 699 Syrian Arab Republic 2016-02-10 08:21:13  
## 700 Saint Helena 2016-01-04 06:37:15  
## 701 Lebanon 2016-06-05 21:38:22  
## 702 Malta 2016-06-01 03:17:50  
## 703 Christmas Island 2016-03-06 06:51:23  
## 704 Ukraine 2016-02-26 19:35:54  
## 705 Malta 2016-07-13 14:30:14  
## 706 Italy 2016-06-29 07:20:46  
## 707 Japan 2016-03-15 06:54:21  
## 708 Mauritius 2016-06-11 06:47:55  
## 709 Turkey 2016-07-17 13:22:43  
## 710 Namibia 2016-02-14 14:38:01  
## 711 China 2016-05-04 05:01:37  
## 712 Netherlands 2016-05-20 12:17:28  
## 713 Gibraltar 2016-01-26 02:47:17  
## 714 Congo 2016-07-07 18:07:19  
## 715 Senegal 2016-01-11 12:46:31  
## 716 Hungary 2016-05-12 12:11:12  
## 717 Pitcairn Islands 2016-02-28 23:21:22  
## 718 Slovakia (Slovak Republic) 2016-05-03 16:02:50  
## 719 United States Virgin Islands 2016-03-15 20:19:20  
## 720 Monaco 2016-07-23 05:21:39  
## 721 Portugal 2016-03-11 10:01:23  
## 722 Turkey 2016-02-11 20:45:46  
## 723 Uganda 2016-07-06 23:09:07  
## 724 Norfolk Island 2016-03-22 19:14:47  
## 725 Niue 2016-05-26 13:28:36  
## 726 Ukraine 2016-06-18 19:10:14  
## 727 Vanuatu 2016-03-20 07:12:52  
## 728 United States Minor Outlying Islands 2016-06-03 07:00:36  
## 729 Armenia 2016-02-03 15:15:42  
## 730 Sweden 2016-05-03 16:55:02  
## 731 Timor-Leste 2016-06-20 02:25:12  
## 732 French Southern Territories 2016-07-10 19:15:52  
## 733 Finland 2016-01-04 04:00:35  
## 734 Saint Vincent and the Grenadines 2016-04-20 16:49:15  
## 735 Senegal 2016-01-23 13:14:18  
## 736 Burundi 2016-01-04 22:27:25  
## 737 Bahamas 2016-04-08 22:40:55  
## 738 Sweden 2016-01-05 11:53:17  
## 739 Svalbard & Jan Mayen Islands 2016-03-17 22:24:02  
## 740 Tonga 2016-06-29 04:23:10  
## 741 Korea 2016-05-25 19:45:16  
## 742 Kyrgyz Republic 2016-06-17 23:19:38  
## 743 Costa Rica 2016-04-24 07:20:16  
## 744 Liechtenstein 2016-03-18 13:00:12  
## 745 Zimbabwe 2016-04-28 21:58:25  
## 746 Costa Rica 2016-02-12 08:46:15  
## 747 Hungary 2016-07-11 13:23:37  
## 748 Fiji 2016-01-29 00:45:19  
## 749 Netherlands 2016-01-05 16:26:44  
## 750 Sweden 2016-06-20 08:22:09  
## 751 Barbados 2016-02-06 17:48:28  
## 752 Paraguay 2016-06-22 17:19:09  
## 753 Italy 2016-04-16 05:24:33  
## 754 Belarus 2016-01-17 05:07:11  
## 755 South Georgia and the South Sandwich Islands 2016-07-08 22:30:10  
## 756 Anguilla 2016-03-11 00:05:48  
## 757 Sierra Leone 2016-06-10 00:35:15  
## 758 Saint Martin 2016-01-04 00:44:57  
## 759 Uganda 2016-01-01 15:14:24  
## 760 Saudi Arabia 2016-07-10 17:24:51  
## 761 Greenland 2016-03-27 19:50:11  
## 762 Venezuela 2016-04-29 13:38:19  
## 763 Liberia 2016-01-08 18:13:43  
## 764 Mali 2016-06-05 07:54:30  
## 765 Bosnia and Herzegovina 2016-06-29 10:50:45  
## 766 Brunei Darussalam 2016-04-24 13:46:10  
## 767 South Georgia and the South Sandwich Islands 2016-02-14 04:14:13  
## 768 Czech Republic 2016-06-15 05:43:02  
## 769 El Salvador 2016-07-06 12:04:29  
## 770 Tokelau 2016-03-31 13:54:51  
## 771 France 2016-06-21 00:52:47  
## 772 Gabon 2016-05-27 05:23:26  
## 773 Bulgaria 2016-01-17 18:45:55  
## 774 Burkina Faso 2016-04-07 20:34:42  
## 775 Mayotte 2016-05-02 18:37:01  
## 776 Somalia 2016-06-04 17:24:07  
## 777 Albania 2016-04-07 18:52:57  
## 778 Bolivia 2016-06-10 22:21:10  
## 779 Jersey 2016-05-19 06:37:38  
## 780 British Virgin Islands 2016-03-28 23:01:24  
## 781 Saint Helena 2016-01-21 22:51:34  
## 782 Bosnia and Herzegovina 2016-03-12 06:05:12  
## 783 India 2016-06-04 09:13:29  
## 784 Georgia 2016-05-24 10:16:38  
## 785 United States Minor Outlying Islands 2016-03-25 06:36:53  
## 786 Kiribati 2016-04-22 00:28:18  
## 787 Ghana 2016-03-22 04:13:35  
## 788 Samoa 2016-01-14 08:27:04  
## 789 Iran 2016-04-14 21:37:49  
## 790 Costa Rica 2016-05-31 17:50:15  
## 791 Northern Mariana Islands 2016-03-17 06:25:47  
## 792 Liechtenstein 2016-04-13 07:07:36  
## 793 Grenada 2016-02-03 22:11:13  
## 794 Poland 2016-02-02 19:59:17  
## 795 Kenya 2016-04-07 20:38:02  
## 796 Iran 2016-03-15 19:35:19  
## 797 Belgium 2016-03-11 12:39:19  
## 798 Namibia 2016-05-17 18:06:46  
## 799 Cyprus 2016-02-28 23:10:32  
## 800 Japan 2016-03-02 06:35:08  
## 801 Zimbabwe 2016-02-27 08:52:50  
## 802 Andorra 2016-03-14 04:34:35  
## 803 Luxembourg 2016-03-10 15:07:44  
## 804 Cyprus 2016-05-01 08:27:12  
## 805 Turkey 2016-06-12 11:17:25  
## 806 Hong Kong 2016-05-28 12:20:15  
## 807 Netherlands 2016-03-18 09:08:39  
## 808 United States Virgin Islands 2016-05-26 06:03:57  
## 809 Marshall Islands 2016-07-06 03:40:17  
## 810 Western Sahara 2016-04-29 14:10:00  
## 811 Saint Vincent and the Grenadines 2016-03-05 20:53:19  
## 812 United States of America 2016-05-30 08:35:54  
## 813 Angola 2016-04-10 06:32:11  
## 814 Cayman Islands 2016-01-20 02:31:36  
## 815 Swaziland 2016-07-20 21:53:42  
## 816 Wallis and Futuna 2016-01-17 04:12:30  
## 817 Zimbabwe 2016-02-24 07:13:00  
## 818 Chad 2016-03-26 19:37:46  
## 819 Saint Martin 2016-06-04 09:25:27  
## 820 Rwanda 2016-04-22 07:48:33  
## 821 Moldova 2016-03-31 08:53:43  
## 822 Gabon 2016-04-16 08:36:08  
## 823 Denmark 2016-05-12 20:57:10  
## 824 Svalbard & Jan Mayen Islands 2016-05-07 21:32:51  
## 825 Poland 2016-06-25 00:33:23  
## 826 Fiji 2016-03-23 05:27:35  
## 827 Philippines 2016-03-04 13:47:47  
## 828 Vietnam 2016-06-14 12:08:10  
## 829 Jersey 2016-05-11 19:13:42  
## 830 Indonesia 2016-01-21 23:33:22  
## 831 Palestinian Territory 2016-01-15 19:45:33  
## 832 Latvia 2016-04-23 09:42:08  
## 833 Malta 2016-05-23 08:06:24  
## 834 Afghanistan 2016-02-27 15:04:52  
## 835 Austria 2016-02-23 17:37:46  
## 836 Micronesia 2016-03-17 22:59:46  
## 837 Mexico 2016-02-28 03:34:35  
## 838 Chile 2016-03-15 14:33:12  
## 839 Cuba 2016-03-03 20:20:32  
## 840 Belarus 2016-04-06 14:16:52  
## 841 Malawi 2016-05-01 09:23:25  
## 842 Afghanistan 2016-05-30 08:02:27  
## 843 Luxembourg 2016-04-04 11:39:51  
## 844 South Africa 2016-04-06 23:10:40  
## 845 Nepal 2016-04-26 21:45:50  
## 846 Spain 2016-05-25 00:34:59  
## 847 Hong Kong 2016-02-11 16:45:41  
## 848 Slovakia (Slovak Republic) 2016-01-30 00:05:37  
## 849 Cayman Islands 2016-07-12 10:56:21  
## 850 Uganda 2016-04-23 03:46:34  
## 851 Vanuatu 2016-04-16 10:36:49  
## 852 Anguilla 2016-03-11 13:07:30  
## 853 Switzerland 2016-03-02 15:39:02  
## 854 Zimbabwe 2016-07-13 21:31:14  
## 855 Uruguay 2016-05-29 18:12:00  
## 856 Liberia 2016-05-10 17:13:47  
## 857 Egypt 2016-05-07 08:39:47  
## 858 Greece 2016-01-17 13:27:13  
## 859 Bahrain 2016-03-09 06:22:03  
## 860 Sri Lanka 2016-04-05 18:02:49  
## 861 Kazakhstan 2016-04-01 07:37:18  
## 862 Greenland 2016-02-15 16:18:49  
## 863 Moldova 2016-03-08 05:12:57  
## 864 Poland 2016-02-09 23:38:30  
## 865 Anguilla 2016-06-17 09:38:22  
## 866 Central African Republic 2016-06-01 12:27:17  
## 867 Mexico 2016-02-26 23:44:44  
## 868 Togo 2016-03-11 09:58:32  
## 869 Armenia 2016-04-28 02:55:10  
## 870 Nicaragua 2016-04-12 04:22:42  
## 871 Eritrea 2016-02-10 20:43:38  
## 872 Canada 2016-05-01 23:21:53  
## 873 Croatia 2016-03-24 17:48:31  
## 874 Switzerland 2016-04-22 19:45:19  
## 875 Yemen 2016-03-09 12:10:08  
## 876 Tokelau 2016-03-30 05:29:38  
## 877 Armenia 2016-01-24 13:41:38  
## 878 Equatorial Guinea 2016-07-15 09:42:19  
## 879 Barbados 2016-06-07 05:41:16  
## 880 American Samoa 2016-05-31 23:32:00  
## 881 Saint Lucia 2016-05-14 14:49:05  
## 882 Algeria 2016-01-10 20:18:21  
## 883 Turkmenistan 2016-02-21 16:57:59  
## 884 Mayotte 2016-05-23 00:32:54  
## 885 South Africa 2016-07-21 20:30:06  
## 886 Macao 2016-05-15 18:44:50  
## 887 France 2016-06-30 00:43:40  
## 888 Equatorial Guinea 2016-02-24 06:17:18  
## 889 Mali 2016-05-30 21:22:22  
## 890 Mayotte 2016-06-02 04:14:37  
## 891 Pakistan 2016-04-18 07:00:38  
## 892 Guadeloupe 2016-02-29 18:06:21  
## 893 Denmark 2016-05-27 12:45:37  
## 894 New Zealand 2016-01-12 21:17:15  
## 895 Netherlands Antilles 2016-01-27 17:08:19  
## 896 Belarus 2016-06-10 03:56:41  
## 897 Taiwan 2016-04-09 09:26:39  
## 898 El Salvador 2016-02-26 06:00:16  
## 899 Taiwan 2016-02-21 23:07:11  
## 900 Peru 2016-04-29 14:08:26  
## 901 Liberia 2016-02-11 17:02:07  
## 902 Burundi 2016-07-22 07:44:43  
## 903 Macao 2016-06-26 02:34:15  
## 904 Venezuela 2016-05-14 23:08:14  
## 905 Luxembourg 2016-05-24 10:04:39  
## 906 Italy 2016-02-16 12:05:45  
## 907 San Marino 2016-03-20 02:44:13  
## 908 Madagascar 2016-01-31 05:12:44  
## 909 Norfolk Island 2016-04-01 05:17:28  
## 910 Vanuatu 2016-02-25 16:33:24  
## 911 Tunisia 2016-03-21 11:02:49  
## 912 Paraguay 2016-02-12 05:20:19  
## 913 Macedonia 2016-06-01 16:10:30  
## 914 Heard Island and McDonald Islands 2016-06-16 03:17:45  
## 915 Ethiopia 2016-03-26 15:28:07  
## 916 El Salvador 2016-02-16 07:37:28  
## 917 Niger 2016-02-28 09:31:31  
## 918 Timor-Leste 2016-05-18 01:00:52  
## 919 Uruguay 2016-02-21 13:11:08  
## 920 Somalia 2016-01-05 12:59:07  
## 921 Malaysia 2016-05-18 00:07:43  
## 922 Korea 2016-03-06 23:26:44  
## 923 Lao People's Democratic Republic 2016-05-19 04:23:41  
## 924 Bahamas 2016-04-29 20:40:21  
## 925 Guyana 2016-05-03 01:09:01  
## 926 Ethiopia 2016-06-27 21:51:47  
## 927 Bosnia and Herzegovina 2016-02-08 07:33:22  
## 928 Cyprus 2016-02-22 07:04:05  
## 929 Singapore 2016-03-21 08:13:24  
## 930 Dominican Republic 2016-05-31 00:58:37  
## 931 Bermuda 2016-01-01 05:31:22  
## 932 Jamaica 2016-05-27 08:53:51  
## 933 Saint Barthelemy 2016-05-09 07:13:27  
## 934 Albania 2016-06-27 01:56:36  
## 935 Mozambique 2016-06-03 04:51:46  
## 936 Zimbabwe 2016-02-24 00:44:44  
## 937 Georgia 2016-03-05 12:03:41  
## 938 Brazil 2016-01-15 22:49:45  
## 939 Syrian Arab Republic 2016-02-12 03:39:09  
## 940 Palestinian Territory 2016-02-19 20:49:27  
## 941 Grenada 2016-03-12 02:48:18  
## 942 Ghana 2016-07-23 04:04:42  
## 943 Brunei Darussalam 2016-03-06 09:33:46  
## 944 Lithuania 2016-02-24 04:11:37  
## 945 Maldives 2016-02-17 20:22:49  
## 946 Lesotho 2016-02-02 04:57:50  
## 947 Czech Republic 2016-01-27 16:06:05  
## 948 Iceland 2016-05-24 09:50:41  
## 949 Philippines 2016-02-08 22:45:26  
## 950 Cayman Islands 2016-02-12 01:55:38  
## 951 Haiti 2016-01-11 08:18:12  
## 952 Colombia 2016-03-03 03:51:27  
## 953 Luxembourg 2016-05-30 20:08:51  
## 954 United Arab Emirates 2016-04-22 22:01:21  
## 955 Ireland 2016-05-25 10:39:28  
## 956 Canada 2016-02-04 03:10:17  
## 957 Svalbard & Jan Mayen Islands 2016-02-21 20:09:12  
## 958 Malta 2016-04-28 01:24:34  
## 959 Sudan 2016-05-18 19:33:51  
## 960 Ecuador 2016-02-17 11:15:31  
## 961 Senegal 2016-06-19 23:04:45  
## 962 Cambodia 2016-02-20 09:54:06  
## 963 Belarus 2016-01-22 12:58:14  
## 964 Guyana 2016-02-19 13:26:24  
## 965 Mali 2016-01-03 07:13:53  
## 966 Iran 2016-01-03 04:39:47  
## 967 Bulgaria 2016-04-13 13:04:47  
## 968 Afghanistan 2016-01-01 03:35:35  
## 969 Liberia 2016-03-27 08:32:37  
## 970 Netherlands Antilles 2016-07-10 16:25:56  
## 971 Hong Kong 2016-06-25 04:21:33  
## 972 Palau 2016-01-27 14:41:10  
## 973 Malawi 2016-05-16 18:51:59  
## 974 Uruguay 2016-02-27 20:20:25  
## 975 Cyprus 2016-02-28 23:54:44  
## 976 Mexico 2016-06-13 06:11:33  
## 977 Niger 2016-05-05 11:07:13  
## 978 France 2016-07-07 12:17:33  
## 979 Japan 2016-05-24 17:07:08  
## 980 Norfolk Island 2016-03-30 14:36:55  
## 981 Bulgaria 2016-05-27 05:54:03  
## 982 Uzbekistan 2016-01-03 16:30:51  
## 983 Mexico 2016-06-25 18:17:53  
## 984 Brunei Darussalam 2016-02-24 10:36:43  
## 985 France 2016-03-03 03:13:48  
## 986 Yemen 2016-04-21 19:56:24  
## 987 Northern Mariana Islands 2016-04-06 17:26:37  
## 988 Poland 2016-03-23 12:53:23  
## 989 Bahrain 2016-02-17 07:00:38  
## 990 Saint Pierre and Miquelon 2016-06-26 07:01:47  
## 991 Tonga 2016-04-20 13:36:42  
## 992 Comoros 2016-07-21 16:02:40  
## 993 Montenegro 2016-03-06 11:36:06  
## 994 Isle of Man 2016-02-11 23:45:01  
## 995 Mayotte 2016-04-04 03:57:48  
## 996 Lebanon 2016-02-11 21:49:00  
## 997 Bosnia and Herzegovina 2016-04-22 02:07:01  
## 998 Mongolia 2016-02-01 17:24:57  
## 999 Guatemala 2016-03-24 02:35:54  
## 1000 Brazil 2016-06-03 21:43:21  
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#extracting the year, month and day from the timestamp column  
advertising$Year <- format(as.POSIXct(advertising$Timestamp, format='%Y-%m-%d %H:%M:%S'), '%Y')  
advertising$Month <- format(as.POSIXct(advertising$Timestamp, format= '%Y-%m-%d %H:%M:%S'), '%m')  
advertising$Day <- format(as.POSIXct(advertising$Timestamp, format= '%Y-%m-%d %H:%M:%S'), '%d')  
advertising$Hour <- format(as.POSIXct(advertising$Timestamp, format= '%Y-%m-%d %H:%M:%S'), '%H')  
head(advertising)

## 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 Gender 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 Year Month Day Hour  
## 1 2016-03-27 00:53:11 0 2016 03 27 00  
## 2 2016-04-04 01:39:02 0 2016 04 04 01  
## 3 2016-03-13 20:35:42 0 2016 03 13 20  
## 4 2016-01-10 02:31:19 0 2016 01 10 02  
## 5 2016-06-03 03:36:18 0 2016 06 03 03  
## 6 2016-05-19 14:30:17 0 2016 05 19 14

colSums(is.na(advertising))

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## Gender Country Timestamp   
## 0 0 0   
## Clicked.on.Ad Year Month   
## 0 0 0   
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## 0 0

#drop unnecessary columns   
advertising$Timestamp <-NULL  
head(advertising)

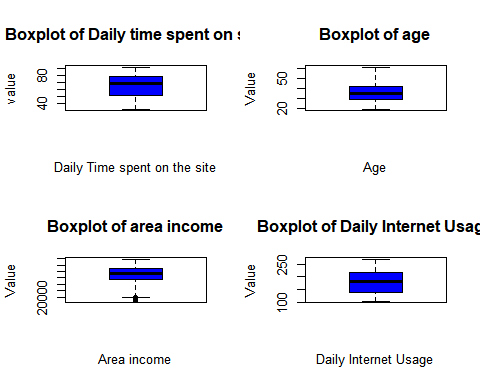
## Daily.Time.Spent.on.Site Age Area.Income Daily.Internet.Usage  
## 1 68.95 35 61833.90 256.09  
## 2 80.23 31 68441.85 193.77  
## 3 69.47 26 59785.94 236.50  
## 4 74.15 29 54806.18 245.89  
## 5 68.37 35 73889.99 225.58  
## 6 59.99 23 59761.56 226.74  
## Ad.Topic.Line City Gender Country  
## 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  
## Clicked.on.Ad Year Month Day Hour  
## 1 0 2016 03 27 00  
## 2 0 2016 04 04 01  
## 3 0 2016 03 13 20  
## 4 0 2016 01 10 02  
## 5 0 2016 06 03 03  
## 6 0 2016 05 19 14

#convert the year, month, day, hour columns to factor  
advertising$Year <- as.factor(advertising$Year)  
advertising$Month <- as.factor(advertising$Month)  
advertising$Day <- as.factor(advertising$Day)  
advertising$Hour <- as.factor(advertising$Hour)  
str(advertising)

## 'data.frame': 1000 obs. of 13 variables:  
## $ Daily.Time.Spent.on.Site: num 69 80.2 69.5 74.2 68.4 ...  
## $ Age : int 35 31 26 29 35 23 33 48 30 20 ...  
## $ Area.Income : num 61834 68442 59786 54806 73890 ...  
## $ Daily.Internet.Usage : num 256 194 236 246 226 ...  
## $ Ad.Topic.Line : chr "Cloned 5thgeneration orchestration" "Monitored national standardization" "Organic bottom-line service-desk" "Triple-buffered reciprocal time-frame" ...  
## $ City : chr "Wrightburgh" "West Jodi" "Davidton" "West Terrifurt" ...  
## $ Gender : Factor w/ 2 levels "0","1": 1 2 1 2 1 2 1 2 2 2 ...  
## $ Country : chr "Tunisia" "Nauru" "San Marino" "Italy" ...  
## $ Clicked.on.Ad : Factor w/ 2 levels "0","1": 1 1 1 1 1 1 1 2 1 1 ...  
## $ Year : Factor w/ 1 level "2016": 1 1 1 1 1 1 1 1 1 1 ...  
## $ Month : Factor w/ 7 levels "01","02","03",..: 3 4 3 1 6 5 1 3 4 7 ...  
## $ Day : Factor w/ 31 levels "01","02","03",..: 27 4 13 10 3 19 28 7 18 11 ...  
## $ Hour : Factor w/ 24 levels "00","01","02",..: 1 2 21 3 4 15 21 2 10 2 ...

\*Checking for outliers\*

#Plotting boxplots of individual columns  
par(mfrow = c(2,2))  
boxplot(advertising$Daily.Time.Spent.on.Site, main='Boxplot of Daily time spent on site', xlab='Daily Time spent on the site', ylab='value', col = 'blue')  
boxplot(advertising$Age, main='Boxplot of age', xlab='Age', ylab='Value', col = 'blue')  
boxplot(advertising$Area.Income, main='Boxplot of area income', xlab='Area income', ylab='Value', col = 'blue')  
boxplot(advertising$Daily.Internet.Usage, main='Boxplot of Daily Internet Usage', xlab='Daily Internet Usage', ylab='Value', col = 'blue')



The outliers in area income might be due to low numbers of ad clicks so no need to remove them.

#5 Univariate Exploratory Data Analysis ## Measures of Central Tendancy

#mean  
mean <- colMeans(advertising[sapply(advertising, is.numeric)])  
print(mean)

## Daily.Time.Spent.on.Site Age Area.Income   
## 65.0002 36.0090 55000.0001   
## Daily.Internet.Usage   
## 180.0001

# median  
  
library(robustbase)  
library(tidyverse)

## ── Attaching packages ─────────────────────────────────────── tidyverse 1.3.2 ──  
## ✔ ggplot2 3.3.6 ✔ purrr 0.3.4  
## ✔ tibble 3.1.7 ✔ stringr 1.4.0  
## ✔ tidyr 1.2.0 ✔ forcats 0.5.1  
## ✔ readr 2.1.2   
## ── Conflicts ────────────────────────────────────────── tidyverse\_conflicts() ──  
## ✖ lubridate::as.difftime() masks base::as.difftime()  
## ✖ lubridate::date() masks base::date()  
## ✖ dplyr::filter() masks stats::filter()  
## ✖ lubridate::intersect() masks base::intersect()  
## ✖ dplyr::lag() masks stats::lag()  
## ✖ lubridate::setdiff() masks base::setdiff()  
## ✖ lubridate::union() masks base::union()

median <- advertising%>%  
 select\_if(is.numeric) %>%  
 as.matrix()%>%  
 colMedians()  
print(median)

## Daily.Time.Spent.on.Site Age Area.Income   
## 68.215 35.000 57012.300   
## Daily.Internet.Usage   
## 183.130

#Finding the mode  
  
mode <- function(v) {  
 uniqv <- unique(v)  
 uniqv[which.max(tabulate(match(v, uniqv)))]  
}  
mode(advertising$Daily.Time.Spent.on.Site)

## [1] 62.26

mode(advertising$Age)

## [1] 31

mode(advertising$Area.Income)

## [1] 61833.9

mode(advertising$Daily.Internet.Usage)

## [1] 167.22

mode(advertising$Ad.Topic.Line)

## [1] "Cloned 5thgeneration orchestration"

mode(advertising$City)

## [1] "Lisamouth"

mode(advertising$Gender)

## [1] 0  
## Levels: 0 1

mode(advertising$Country)

## [1] "Czech Republic"

mode(advertising$Year)

## [1] 2016  
## Levels: 2016

mode(advertising$Month)

## [1] 02  
## Levels: 01 02 03 04 05 06 07

mode(advertising$Day)

## [1] 03  
## 31 Levels: 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 ... 31

mode(advertising$Hour)

## [1] 07  
## 24 Levels: 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 ... 23

mode(advertising$Clicked.on.Ad)

## [1] 0  
## Levels: 0 1

# mean Daily time spent on site- 65.0002 minutes  
# mean Age- 36years  
# mean area income- 55000  
# mean Daily internet usage- 183.13 minutes

## Measures of Dispersion

# minimums  
num.cols <- list(advertising$Daily.Time.Spent.on.Site,advertising$Age,  
advertising$Area.Income,advertising$Daily.Internet.Usage)  
min(advertising$Daily.Time.Spent.on.Site)

## [1] 32.6

min(advertising$Age)

## [1] 19

min(advertising$Area.Income)

## [1] 13996.5

min(advertising$Daily.Internet.Usage)

## [1] 104.78

# maximums  
max(advertising$Daily.Time.Spent.on.Site)

## [1] 91.43

max(advertising$Age)

## [1] 61

max(advertising$Area.Income)

## [1] 79484.8

max(advertising$Daily.Internet.Usage)

## [1] 269.96

# Range  
range(advertising$Daily.Time.Spent.on.Site)

## [1] 32.60 91.43

range(advertising$Age)

## [1] 19 61

range(advertising$Area.Income)

## [1] 13996.5 79484.8

range(advertising$Daily.Internet.Usage)

## [1] 104.78 269.96

# quantiles  
quantile(advertising$Daily.Time.Spent.on.Site)

## 0% 25% 50% 75% 100%   
## 32.6000 51.3600 68.2150 78.5475 91.4300

quantile(advertising$Age)

## 0% 25% 50% 75% 100%   
## 19 29 35 42 61

quantile(advertising$Area.Income)

## 0% 25% 50% 75% 100%   
## 13996.50 47031.80 57012.30 65470.64 79484.80

quantile(advertising$Daily.Internet.Usage)

## 0% 25% 50% 75% 100%   
## 104.7800 138.8300 183.1300 218.7925 269.9600

# variance  
var(advertising$Daily.Time.Spent.on.Site)

## [1] 251.3371

var(advertising$Age)

## [1] 77.18611

var(advertising$Area.Income)

## [1] 179952406

# Standard Deviation  
sd(advertising$Daily.Time.Spent.on.Site)

## [1] 15.85361

sd(advertising$Age)

## [1] 8.785562

sd(advertising$Area.Income)

## [1] 13414.63

sd(advertising$Daily.Internet.Usage)

## [1] 43.90234

# skewness  
library(e1071)  
skewness(advertising$Daily.Time.Spent.on.Site)

## [1] -0.370646

skewness(advertising$Age)

## [1] 0.4777052

skewness(advertising$Area.Income)

## [1] -0.6484229

skewness(advertising$Daily.Internet.Usage)

## [1] -0.03343681

# Kurtosis  
library(e1071)  
kurtosis(advertising$Daily.Time.Spent.on.Site)

## [1] -1.099864

kurtosis(advertising$Age)

## [1] -0.4097066

kurtosis(advertising$Area.Income)

## [1] -0.1110924

kurtosis(advertising$Daily.Internet.Usage)

## [1] -1.275752

## Univariate Data analysis Graphicals

### categorical columns

par(mfrow = c(2,2))  
city <- advertising$City  
freq\_city <- table(city)  
freq\_city

## city  
## Adamsbury Adamside Adamsstad   
## 1 1 1   
## Alanview Alexanderfurt Alexanderview   
## 1 1 1   
## Alexandrafort Alexisland Aliciatown   
## 1 1 1   
## Alvaradoport Alvarezland Amandafort   
## 1 1 1   
## Amandahaven Amandaland Amyfurt   
## 1 1 1   
## Amyhaven Andersonchester Andersonfurt   
## 1 1 1   
## Andersonton Andrewborough Andrewmouth   
## 1 1 1   
## Angelhaven Anthonyfurt Ashleychester   
## 1 1 1   
## Ashleymouth Austinborough Austinland   
## 1 1 1   
## Bakerhaven Barbershire Beckton   
## 1 1 1   
## Benjaminchester Bernardton Bethburgh   
## 2 1 1   
## Birdshire Blairborough Blairville   
## 1 1 1   
## Blevinstown Bowenview Boyerberg   
## 1 1 1   
## Bradleyborough Bradleyburgh Bradleyside   
## 1 1 1   
## Bradshawborough Bradyfurt Brandiland   
## 1 1 1   
## Brandonbury Brandonstad Brandymouth   
## 1 1 1   
## Brendaburgh Brendachester Brianabury   
## 1 1 1   
## Brianfurt Brianland Brittanyborough   
## 1 1 1   
## Brownbury Brownport Brownton   
## 1 1 1   
## Browntown Brownview Bruceburgh   
## 1 1 1   
## Burgessside Butlerfort Calebberg   
## 1 1 1   
## Cameronberg Campbellstad Cannonbury   
## 1 1 1   
## Carsonshire Carterburgh Carterland   
## 1 1 1   
## Carterport Carterton Cassandratown   
## 1 1 1   
## Catherinefort Cervantesshire Chapmanland   
## 1 1 1   
## Chapmanmouth Charlenetown Charlesbury   
## 1 1 1   
## Charlesport Charlottefort Chaseshire   
## 1 1 1   
## Chrismouth Christinehaven Christinetown   
## 1 1 1   
## Christopherchester Christopherport Christopherville   
## 1 1 1   
## Clarkborough Claytonside Clineshire   
## 1 1 1   
## Codyburgh Coffeytown Colebury   
## 1 1 1   
## Colemanshire Collinsburgh Combsstad   
## 1 1 1   
## Contrerasshire Costaburgh Courtneyfort   
## 1 1 1   
## Coxhaven Cranemouth Crawfordfurt   
## 1 1 1   
## Cunninghamhaven Curtisport Curtisview   
## 1 1 1   
## Cynthiaside Daisymouth Danielview   
## 1 1 1   
## Davidmouth Davidside Davidstad   
## 1 1 1   
## Davidton Davidview Daviesborough   
## 1 1 1   
## Davieshaven Davilachester Davisfurt   
## 1 1 1   
## Dayton Deannaville Debraburgh   
## 1 1 1   
## Derrickhaven Destinyfurt Dianashire   
## 1 1 1   
## Dianaville Donaldshire Douglasview   
## 1 1 1   
## Duffystad Dustinborough Dustinchester   
## 1 1 1   
## Dustinmouth East Aaron East Anthony   
## 1 1 1   
## East Barbara East Benjaminville East Breannafurt   
## 1 1 1   
## East Brettton East Brianberg East Brittanyville   
## 1 1 1   
## East Carlos East Christopher East Christopherbury   
## 1 1 1   
## East Connie East Dana East Deborahhaven   
## 1 1 1   
## East Debraborough East Donna East Donnatown   
## 1 1 1   
## East Eric East Ericport East Georgeside   
## 1 1 1   
## East Graceland East Heatherside East Heidi   
## 1 1 1   
## East Henry East Jason East Jennifer   
## 1 1 1   
## East Jessefort East John East Johnport   
## 1 2 1   
## East Kevinbury East Lindsey East Maureen   
## 1 1 1   
## East Michaelland East Michaelmouth East Michaeltown   
## 1 1 1   
## East Michele East Michelleberg East Mike   
## 1 1 1   
## East Paul East Rachaelfurt East Rachelview   
## 1 1 1   
## East Ronald East Samanthashire East Sharon   
## 1 1 1   
## East Shawn East Shawnchester East Sheriville   
## 1 1 1   
## East Stephen East Susanland East Tammie   
## 1 1 1   
## East Theresashire East Tiffanyport East Timothy   
## 1 1 2   
## East Timothyport East Toddfort East Troyhaven   
## 1 1 1   
## East Tylershire East Valerie East Vincentstad   
## 1 1 1   
## East Yvonnechester Edwardmouth Edwardsmouth   
## 1 1 1   
## Edwardsport Elizabethbury Elizabethmouth   
## 1 1 1   
## Elizabethport Elizabethstad Emilyfurt   
## 1 1 1   
## Ericksonmouth Erikville Erinmouth   
## 1 1 1   
## Erinton Estesfurt Estradafurt   
## 1 1 1   
## Estradashire Evansfurt Evansville   
## 1 1 1   
## Faithview Florestown Fosterside   
## 1 1 1   
## Frankbury Frankchester Frankport   
## 1 1 1   
## Fraziershire Garciamouth Garciaside   
## 1 1 1   
## Garciatown Garciaview Garnerberg   
## 1 1 1   
## Garrettborough Garychester Gilbertville   
## 1 1 1   
## Gomezport Gonzalezburgh Grahamberg   
## 1 1 1   
## Gravesport Greenechester Greentown   
## 1 1 1   
## Greerport Greerton Greghaven   
## 1 1 1   
## Guzmanland Haleberg Haleview   
## 1 1 1   
## Hallfort Hamiltonfort Hammondport   
## 1 1 1   
## Hannahside Hannaport Hansenland   
## 1 1 1   
## Hansenmouth Harmonhaven Harperborough   
## 1 1 1   
## Harrishaven Harrisonmouth Hartmanchester   
## 1 1 1   
## Hartport Harveyport Hatfieldshire   
## 1 1 1   
## Hawkinsbury Hayesmouth Heatherberg   
## 1 1 1   
## Helenborough Hendrixmouth Henryfort   
## 1 1 1   
## Henryland Hernandezchester Hernandezfort   
## 1 1 1   
## Hernandezside Hernandezville Hessstad   
## 1 1 1   
## Hintonport Hobbsbury Holderville   
## 1 1 1   
## Hollandberg Hollyfurt Hubbardmouth   
## 1 1 1   
## Huffmanchester Hughesport Hurleyborough   
## 1 1 1   
## Ianmouth Ingramberg Isaacborough   
## 1 1 1   
## Jacksonburgh Jacksonmouth Jacksonstad   
## 1 1 1   
## Jacobstad Jacquelineshire Jamesberg   
## 1 1 1   
## Jamesfurt Jamesmouth Jamesville   
## 1 1 1   
## Jamieberg Jamiefort Janiceview   
## 1 1 1   
## Jasminefort Jayville Jeffreyburgh   
## 1 1 1   
## Jeffreymouth Jeffreyshire Jenniferhaven   
## 1 1 1   
## Jenniferstad Jensenborough Jensenton   
## 1 1 1   
## Jeremybury Jeremyshire Jessicahaven   
## 1 1 1   
## Jessicashire Jessicastad Joanntown   
## 1 1 1   
## Joechester Johnport Johnsonfort   
## 1 1 1   
## Johnsontown Johnsonview Johnsport   
## 1 1 1   
## Johnstad Johnstonmouth Johnstonshire   
## 2 1 1   
## Jonathanland Jonathantown Jonesland   
## 1 1 1   
## Jonesmouth Jonesshire Joneston   
## 1 1 2   
## Jordanmouth Jordanshire Jordantown   
## 1 1 1   
## Josephberg Josephmouth Josephstad   
## 1 1 1   
## Joshuaburgh Joshuamouth Juanport   
## 1 1 1   
## Juliaport Julietown Karenmouth   
## 1 1 1   
## Karenton Katieport Kaylashire   
## 1 1 1   
## Keithtown Kellytown Kennedyfurt   
## 1 1 1   
## Kennethview Kentmouth Kevinberg   
## 1 1 1   
## Kevinchester Kimberlyhaven Kimberlymouth   
## 1 1 1   
## Kimberlytown Kingchester Kingshire   
## 1 1 1   
## Klineside Knappburgh Kristineberg   
## 1 1 1   
## Kristinfurt Kristintown Kyleborough   
## 1 1 1   
## Kylieview Lake Adrian Lake Allenville   
## 1 1 1   
## Lake Amanda Lake Amy Lake Angela   
## 1 1 1   
## Lake Annashire Lake Beckyburgh Lake Brandonview   
## 1 1 1   
## Lake Brian Lake Cassandraport Lake Charlottestad   
## 1 1 1   
## Lake Christopherfurt Lake Conniefurt Lake Courtney   
## 1 1 1   
## Lake Craigview Lake Cynthia Lake Danielle   
## 1 1 1   
## Lake David Lake Deannaborough Lake Deborahburgh   
## 2 1 1   
## Lake Dustin Lake Edward Lake Elizabethside   
## 1 1 1   
## Lake Evantown Lake Faith Lake Gerald   
## 1 1 1   
## Lake Hailey Lake Ian Lake Jacob   
## 1 1 1   
## Lake Jacqueline Lake James Lake Jasonchester   
## 1 2 1   
## Lake Jennifer Lake Jenniferton Lake Jessica   
## 1 1 1   
## Lake Jessicaville Lake Jesus Lake Jillville   
## 1 1 1   
## Lake John Lake Johnbury Lake Jonathanview   
## 1 1 1   
## Lake Jose Lake Joseph Lake Josetown   
## 2 1 1   
## Lake Joshuafurt Lake Kevin Lake Kurtmouth   
## 1 1 1   
## Lake Lisa Lake Matthew Lake Matthewland   
## 1 1 1   
## Lake Melindamouth Lake Michael Lake Michaelport   
## 1 1 1   
## Lake Michelle Lake Michellebury Lake Nicole   
## 1 1 1   
## Lake Patrick Lake Rhondaburgh Lake Stephenborough   
## 2 1 1   
## Lake Susan Lake Timothy Lake Tracy   
## 2 1 1   
## Lake Vanessa Lake Zacharyfurt Lauraburgh   
## 1 1 1   
## Laurieside Lawrenceborough Lawsonshire   
## 1 1 1   
## Leahside Leonchester Lesliebury   
## 1 1 1   
## Lesliefort Lewismouth Lindaside   
## 1 1 1   
## Lindsaymouth Lisaberg Lisafort   
## 1 1 1   
## Lisamouth Lopezberg Lopezmouth   
## 3 1 1   
## Loriville Lovemouth Luischester   
## 1 1 1   
## Luisfurt Lukeport Mackenziemouth   
## 1 1 1   
## Marcushaven Mariahview Mariebury   
## 1 1 1   
## Mariemouth Markhaven Masonhaven   
## 1 1 1   
## Masseyshire Mataberg Matthewtown   
## 1 1 1   
## Mauricefurt Mauriceshire Mcdonaldfort   
## 1 1 1   
## Mclaughlinbury Meaganfort Meghanchester   
## 1 1 1   
## Melanieton Melissachester Melissafurt   
## 1 1 1   
## Melissastad Meyerchester Meyersstad   
## 1 1 1   
## Mezaton Michaelland Michaelmouth   
## 1 1 1   
## Michaelshire Micheletown Michellefort   
## 1 1 1   
## Michelleside Millerbury Millerchester   
## 2 2 1   
## Millerfort Millerland Millerside   
## 1 1 1   
## Millertown Millerview Mollyport   
## 2 1 1   
## Monicaview Morganfort Morganport   
## 1 1 1   
## Morrismouth Mosleyburgh Mullenside   
## 1 1 1   
## Munozberg Murphymouth Nelsonfurt   
## 1 1 1   
## New Amanda New Angelview New Brandy   
## 1 1 1   
## New Brendafurt New Charleschester New Christinatown   
## 1 1 1   
## New Cynthia New Daniellefort New Darlene   
## 1 1 1   
## New Dawnland New Debbiestad New Denisebury   
## 1 1 1   
## New Frankshire New Gabriel New Henry   
## 1 1 1   
## New Hollyberg New James New Jamestown   
## 1 1 1   
## New Jasmine New Jay New Jeffreychester   
## 1 1 1   
## New Jessicaport New Johnberg New Joshuaport   
## 2 1 1   
## New Juan New Julianberg New Julie   
## 1 1 1   
## New Karenberg New Kayla New Keithburgh   
## 1 1 1   
## New Lindaberg New Lucasburgh New Marcusbury   
## 1 1 1   
## New Maria New Matthew New Michael   
## 1 1 1   
## New Michaeltown New Nancy New Nathan   
## 1 1 1   
## New Patriciashire New Patrick New Paul   
## 1 1 1   
## New Rachel New Rebecca New Sabrina   
## 1 1 1   
## New Sean New Shane New Sharon   
## 1 1 1   
## New Sheila New Sonialand New Steve   
## 2 1 1   
## New Tammy New Taylorburgh New Teresa   
## 1 1 1   
## New Theresa New Thomas New Timothy   
## 1 1 1   
## New Tina New Tinamouth New Traceystad   
## 1 1 1   
## New Travis New Travistown New Tyler   
## 1 1 1   
## New Wanda New Williammouth New Williamville   
## 1 1 1   
## Newmanberg Nicholasland Nicholasport   
## 1 1 1   
## North Aaronburgh North Aaronchester North Alexandra   
## 1 1 1   
## North Anaport North Andrew North Andrewstad   
## 1 1 1   
## North Angelastad North Angelatown North Anna   
## 1 1 1   
## North April North Brandon North Brittanyburgh   
## 1 1 1   
## North Cassie North Charlesbury North Christopher   
## 1 1 1   
## North Daniel North Debra North Debrashire   
## 2 1 1   
## North Derekville North Destiny North Elizabeth   
## 1 1 1   
## North Frankstad North Garyhaven North Isabellaville   
## 1 1 1   
## North Jenniferburgh North Jeremyport North Jessicaville   
## 1 1 1   
## North Johnside North Johntown North Jonathan   
## 1 1 1   
## North Joshua North Katie North Kennethside   
## 1 1 1   
## North Kevinside North Kimberly North Kristine   
## 1 1 1   
## North Lauraland North Laurenview North Leonmouth   
## 1 1 1   
## North Lisachester North Loriburgh North Mark   
## 1 1 1   
## North Maryland North Mercedes North Michael   
## 1 1 1   
## North Monicaville North Randy North Raymond   
## 1 1 1   
## North Regina North Ricardotown North Richardburgh   
## 1 1 1   
## North Ronaldshire North Russellborough North Samantha   
## 1 1 1   
## North Sarashire North Shannon North Stephanieberg   
## 1 1 1   
## North Tara North Tiffany North Tracyport   
## 1 1 1   
## North Tylerland North Virginia North Wesleychester   
## 1 1 1   
## Novaktown Odomville Olsonside   
## 1 1 1   
## Olsonstad Palmerside Pamelamouth   
## 1 1 2   
## Parkerhaven Patriciahaven Patrickmouth   
## 1 1 1   
## Pattymouth Paulhaven Paulport   
## 1 1 1   
## Paulshire Pearsonfort Penatown   
## 1 1 1   
## Perezland Perryburgh Petersonfurt   
## 1 1 1   
## Phelpschester Philipberg Phillipsbury   
## 1 1 1   
## Port Aliciabury Port Angelamouth Port Anthony   
## 1 1 1   
## Port Aprilville Port Beth Port Blake   
## 1 1 1   
## Port Brenda Port Brian Port Brianfort   
## 1 1 1   
## Port Brittanyville Port Brookeland Port Calvintown   
## 1 1 1   
## Port Cassie Port Chasemouth Port Christina   
## 1 1 1   
## Port Christinemouth Port Christopher Port Christopherborough   
## 1 1 1   
## Port Crystal Port Daniel Port Danielleberg   
## 1 1 1   
## Port Davidland Port Dennis Port Derekberg   
## 1 1 1   
## Port Destiny Port Douglasborough Port Elijah   
## 1 1 1   
## Port Eric Port Erikhaven Port Erinberg   
## 1 1 1   
## Port Eugeneport Port Georgebury Port Gregory   
## 1 1 1   
## Port Jacqueline Port Jacquelinestad Port James   
## 1 1 1   
## Port Jasmine Port Jason Port Jefferybury   
## 1 2 1   
## Port Jeffrey Port Jennifer Port Jessica   
## 1 1 1   
## Port Jessicamouth Port Jodi Port Joshuafort   
## 1 1 1   
## Port Juan Port Julie Port Karenfurt   
## 2 2 1   
## Port Katelynview Port Kathleenfort Port Kevinborough   
## 1 1 1   
## Port Lawrence Port Maria Port Mathew   
## 1 1 1   
## Port Melissaberg Port Melissastad Port Michaelmouth   
## 1 1 1   
## Port Michealburgh Port Mitchell Port Patrickton   
## 1 1 1   
## Port Paultown Port Rachel Port Raymondfort   
## 1 1 1   
## Port Robin Port Sarahhaven Port Sarahshire   
## 1 1 1   
## Port Sherrystad Port Stacey Port Stacy   
## 1 1 1   
## Port Susan Port Whitneyhaven Portermouth   
## 1 1 1   
## Pottermouth Princebury Pruittmouth   
## 1 1 1   
## Rachelhaven Ramirezhaven Ramirezland   
## 1 1 1   
## Ramirezside Ramirezton Ramosstad   
## 1 1 1   
## Randolphport Randyshire Rebeccamouth   
## 1 1 1   
## Reginamouth Reneechester Reyesfurt   
## 1 1 1   
## Reyesland Rhondaborough Richardshire   
## 1 1 1   
## Richardsland Richardsonland Richardsonmouth   
## 1 1 1   
## Richardsonshire Richardsontown Rickymouth   
## 1 1 1   
## Riggsstad Rivasland Robertbury   
## 1 1 1   
## Robertfurt Robertmouth Robertside   
## 2 1 1   
## Robertsonburgh Robertstown Roberttown   
## 1 1 1   
## Robinsonland Robinsontown Rochabury   
## 1 1 1   
## Rogerburgh Rogerland Ronaldport   
## 1 1 1   
## Ronniemouth Russellville Ryanhaven   
## 1 1 1   
## Sabrinaview Salazarbury Samanthaland   
## 1 1 1   
## Samuelborough Sanchezland Sanchezmouth   
## 1 1 1   
## Sandersland Sanderstown Sandraland   
## 1 1 1   
## Sandrashire Sandraville Sarafurt   
## 1 1 1   
## Sarahland Sarahton Sellerstown   
## 1 1 1   
## Shaneland Sharpberg Shawnside   
## 1 1 1   
## Shawstad Shelbyport Sherrishire   
## 1 2 1   
## Shirleyfort Silvaton Smithburgh   
## 1 1 1   
## Smithside Smithtown South Aaron   
## 1 1 1   
## South Adam South Adamhaven South Alexisborough   
## 1 1 1   
## South Blakestad South Brian South Cathyfurt   
## 1 1 1   
## South Christopher South Corey South Cynthiashire   
## 1 1 1   
## South Daniel South Daniellefort South Davidhaven   
## 1 1 1   
## South Davidmouth South Denise South Denisefurt   
## 1 1 1   
## South Dianeshire South George South Henry   
## 1 1 1   
## South Jackieberg South Jade South Jaimeview   
## 1 1 1   
## South Jasminebury South Jeanneport South Jennifer   
## 1 1 1   
## South Jessica South John South Johnnymouth   
## 1 1 1   
## South Kyle South Lauraton South Lauratown   
## 1 1 1   
## South Lisa South Manuel South Margaret   
## 2 1 1   
## South Mark South Meghan South Meredithmouth   
## 1 1 1   
## South Pamela South Patrickfort South Peter   
## 1 1 1   
## South Rebecca South Renee South Robert   
## 1 1 1   
## South Ronald South Stephanieport South Tiffanyton   
## 1 1 1   
## South Tomside South Troy South Vincentchester   
## 1 1 1   
## South Walter Staceyfort Stephenborough   
## 1 1 1   
## Stewartbury Suzannetown Sylviaview   
## 1 1 1   
## Tammymouth Tammyshire Taylorberg   
## 1 1 1   
## Taylorhaven Taylormouth Taylorport   
## 1 1 1   
## Teresahaven Thomasstad Thomasview   
## 1 1 1   
## Timothyfurt Timothymouth Timothyport   
## 1 1 1   
## Timothytown Tinachester Tinaton   
## 1 1 1   
## Townsendfurt Tracyhaven Tranland   
## 1 1 1   
## Troyville Turnerchester Turnerview   
## 1 1 1   
## Turnerville Tylerport Valerieland   
## 1 1 1   
## Vanessastad Vanessaview Villanuevastad   
## 1 1 1   
## Villanuevaton Wademouth Wadestad   
## 1 1 1   
## Wagnerchester Wallacechester Walshhaven   
## 1 1 1   
## Waltertown Watsonfort Welchshire   
## 1 1 1   
## Wendyton Wendyville West Alice   
## 1 1 1   
## West Alyssa West Amanda West Andrew   
## 1 2 1   
## West Angela West Angelabury West Annefort   
## 1 1 1   
## West Aprilport West Arielstad West Barbara   
## 1 1 1   
## West Benjamin West Brad West Brandonton   
## 1 1 1   
## West Brenda West Carmenfurt West Casey   
## 1 1 1   
## West Chloeborough West Christopher West Colin   
## 1 1 1   
## West Connor West Courtney West Daleborough   
## 1 1 1   
## West Dannyberg West David West Dennis   
## 1 1 1   
## West Derekmouth West Dylanberg West Eduardotown   
## 1 1 1   
## West Ericaport West Ericfurt West Gabriellamouth   
## 1 1 1   
## West Gregburgh West Guybury West James   
## 1 1 1   
## West Jane West Jeremyside West Jessicahaven   
## 1 1 1   
## West Jodi West Joseph West Julia   
## 1 1 1   
## West Justin West Katiefurt West Kevinfurt   
## 1 1 1   
## West Lacey West Leahton West Lindseybury   
## 1 1 1   
## West Lisa West Lucas West Mariafort   
## 1 1 1   
## West Melaniefurt West Melissashire West Michaelhaven   
## 1 1 1   
## West Michaelport West Michaelshire West Michaelstad   
## 1 1 1   
## West Pamela West Randy West Raymondmouth   
## 1 1 1   
## West Rhondamouth West Ricardo West Richard   
## 1 1 1   
## West Robertside West Roytown West Russell   
## 1 1 1   
## West Ryan West Samantha West Shannon   
## 1 1 2   
## West Sharon West Shaun West Steven   
## 1 1 2   
## West Sydney West Tanner West Tanya   
## 1 1 1   
## West Terrifurt West Thomas West Tinashire   
## 1 1 1   
## West Travismouth West Wendyland West William   
## 1 1 1   
## West Zacharyborough Westshire Whiteport   
## 1 1 1   
## Whitneyfort Wilcoxport Williammouth   
## 1 1 1   
## Williamport Williamsborough Williamsfort   
## 1 1 1   
## Williamsmouth Williamsport Williamsside   
## 1 3 1   
## Williamstad Wilsonburgh Wintersfort   
## 1 1 1   
## Wongland Wrightburgh Wrightview   
## 1 2 1   
## Yangside Youngburgh Youngfort   
## 1 1 1   
## Yuton Zacharystad Zacharyton   
## 1 1 1

country <- advertising$Country  
freq\_country <- table(country)  
freq\_country

## country  
## Afghanistan   
## 8   
## Albania   
## 7   
## Algeria   
## 6   
## American Samoa   
## 5   
## Andorra   
## 2   
## Angola   
## 4   
## Anguilla   
## 6   
## Antarctica (the territory South of 60 deg S)   
## 3   
## Antigua and Barbuda   
## 5   
## Argentina   
## 2   
## Armenia   
## 3   
## Aruba   
## 1   
## Australia   
## 8   
## Austria   
## 5   
## Azerbaijan   
## 3   
## Bahamas   
## 7   
## Bahrain   
## 5   
## Bangladesh   
## 4   
## Barbados   
## 5   
## Belarus   
## 6   
## Belgium   
## 5   
## Belize   
## 5   
## Benin   
## 2   
## Bermuda   
## 1   
## Bhutan   
## 2   
## Bolivia   
## 6   
## Bosnia and Herzegovina   
## 7   
## Bouvet Island (Bouvetoya)   
## 5   
## Brazil   
## 5   
## British Indian Ocean Territory (Chagos Archipelago)   
## 1   
## British Virgin Islands   
## 3   
## Brunei Darussalam   
## 5   
## Bulgaria   
## 6   
## Burkina Faso   
## 4   
## Burundi   
## 7   
## Cambodia   
## 7   
## Cameroon   
## 5   
## Canada   
## 5   
## Cape Verde   
## 1   
## Cayman Islands   
## 5   
## Central African Republic   
## 2   
## Chad   
## 4   
## Chile   
## 4   
## China   
## 6   
## Christmas Island   
## 6   
## Colombia   
## 2   
## Comoros   
## 2   
## Congo   
## 4   
## Cook Islands   
## 3   
## Costa Rica   
## 6   
## Cote d'Ivoire   
## 4   
## Croatia   
## 6   
## Cuba   
## 5   
## Cyprus   
## 8   
## Czech Republic   
## 9   
## Denmark   
## 3   
## Djibouti   
## 2   
## Dominica   
## 5   
## Dominican Republic   
## 4   
## Ecuador   
## 5   
## Egypt   
## 5   
## El Salvador   
## 6   
## Equatorial Guinea   
## 4   
## Eritrea   
## 7   
## Estonia   
## 3   
## Ethiopia   
## 7   
## Falkland Islands (Malvinas)   
## 4   
## Faroe Islands   
## 3   
## Fiji   
## 7   
## Finland   
## 5   
## France   
## 9   
## French Guiana   
## 4   
## French Polynesia   
## 5   
## French Southern Territories   
## 5   
## Gabon   
## 6   
## Gambia   
## 2   
## Georgia   
## 4   
## Germany   
## 1   
## Ghana   
## 4   
## Gibraltar   
## 3   
## Greece   
## 8   
## Greenland   
## 5   
## Grenada   
## 4   
## Guadeloupe   
## 2   
## Guam   
## 4   
## Guatemala   
## 4   
## Guernsey   
## 3   
## Guinea   
## 3   
## Guinea-Bissau   
## 2   
## Guyana   
## 5   
## Haiti   
## 2   
## Heard Island and McDonald Islands   
## 3   
## Holy See (Vatican City State)   
## 3   
## Honduras   
## 5   
## Hong Kong   
## 6   
## Hungary   
## 6   
## Iceland   
## 3   
## India   
## 2   
## Indonesia   
## 6   
## Iran   
## 5   
## Ireland   
## 3   
## Isle of Man   
## 3   
## Israel   
## 4   
## Italy   
## 5   
## Jamaica   
## 5   
## Japan   
## 4   
## Jersey   
## 6   
## Jordan   
## 1   
## Kazakhstan   
## 4   
## Kenya   
## 4   
## Kiribati   
## 1   
## Korea   
## 5   
## Kuwait   
## 2   
## Kyrgyz Republic   
## 6   
## Lao People's Democratic Republic   
## 4   
## Latvia   
## 4   
## Lebanon   
## 6   
## Lesotho   
## 1   
## Liberia   
## 8   
## Libyan Arab Jamahiriya   
## 4   
## Liechtenstein   
## 6   
## Lithuania   
## 3   
## Luxembourg   
## 7   
## Macao   
## 3   
## Macedonia   
## 2   
## Madagascar   
## 6   
## Malawi   
## 4   
## Malaysia   
## 3   
## Maldives   
## 4   
## Mali   
## 4   
## Malta   
## 6   
## Marshall Islands   
## 1   
## Martinique   
## 4   
## Mauritania   
## 2   
## Mauritius   
## 4   
## Mayotte   
## 6   
## Mexico   
## 6   
## Micronesia   
## 8   
## Moldova   
## 6   
## Monaco   
## 3   
## Mongolia   
## 6   
## Montenegro   
## 2   
## Montserrat   
## 1   
## Morocco   
## 3   
## Mozambique   
## 1   
## Myanmar   
## 5   
## Namibia   
## 2   
## Nauru   
## 3   
## Nepal   
## 3   
## Netherlands   
## 4   
## Netherlands Antilles   
## 6   
## New Caledonia   
## 2   
## New Zealand   
## 4   
## Nicaragua   
## 3   
## Niger   
## 3   
## Niue   
## 3   
## Norfolk Island   
## 5   
## Northern Mariana Islands   
## 3   
## Norway   
## 2   
## Pakistan   
## 5   
## Palau   
## 4   
## Palestinian Territory   
## 3   
## Panama   
## 2   
## Papua New Guinea   
## 5   
## Paraguay   
## 3   
## Peru   
## 8   
## Philippines   
## 6   
## Pitcairn Islands   
## 2   
## Poland   
## 6   
## Portugal   
## 3   
## Puerto Rico   
## 6   
## Qatar   
## 6   
## Reunion   
## 2   
## Romania   
## 1   
## Russian Federation   
## 3   
## Rwanda   
## 5   
## Saint Barthelemy   
## 2   
## Saint Helena   
## 5   
## Saint Kitts and Nevis   
## 1   
## Saint Lucia   
## 2   
## Saint Martin   
## 4   
## Saint Pierre and Miquelon   
## 5   
## Saint Vincent and the Grenadines   
## 6   
## Samoa   
## 6   
## San Marino   
## 3   
## Sao Tome and Principe   
## 2   
## Saudi Arabia   
## 4   
## Senegal   
## 8   
## Serbia   
## 5   
## Seychelles   
## 3   
## Sierra Leone   
## 2   
## Singapore   
## 6   
## Slovakia (Slovak Republic)   
## 2   
## Slovenia   
## 1   
## Somalia   
## 5   
## South Africa   
## 8   
## South Georgia and the South Sandwich Islands   
## 2   
## Spain   
## 3   
## Sri Lanka   
## 4   
## Sudan   
## 2   
## Suriname   
## 2   
## Svalbard & Jan Mayen Islands   
## 6   
## Swaziland   
## 2   
## Sweden   
## 4   
## Switzerland   
## 4   
## Syrian Arab Republic   
## 3   
## Taiwan   
## 7   
## Tajikistan   
## 3   
## Tanzania   
## 3   
## Thailand   
## 4   
## Timor-Leste   
## 5   
## Togo   
## 3   
## Tokelau   
## 4   
## Tonga   
## 5   
## Trinidad and Tobago   
## 3   
## Tunisia   
## 4   
## Turkey   
## 8   
## Turkmenistan   
## 6   
## Turks and Caicos Islands   
## 5   
## Tuvalu   
## 4   
## Uganda   
## 4   
## Ukraine   
## 5   
## United Arab Emirates   
## 6   
## United Kingdom   
## 3   
## United States Minor Outlying Islands   
## 4   
## United States of America   
## 5   
## United States Virgin Islands   
## 4   
## Uruguay   
## 5   
## Uzbekistan   
## 2   
## Vanuatu   
## 6   
## Venezuela   
## 7   
## Vietnam   
## 3   
## Wallis and Futuna   
## 4   
## Western Sahara   
## 7   
## Yemen   
## 3   
## Zambia   
## 4   
## Zimbabwe   
## 6

Clicked.on.Ad\_freq <- table(advertising$Clicked.on.Ad)  
Clicked.on.Ad\_freq

##   
## 0 1   
## 500 500

options(repr.plot.width = 10, repr.plot.height = 10)  
barplot(c(Clicked.on.Ad\_freq), main="A barplot of the Clicked.on.Ad column.",  
 xlab="Clicked.on.Ad",  
 ylab="frequency",  
 col= 'green')  
#Frequency table of gender  
gender\_freq <- table(advertising$Gender)  
gender\_freq

##   
## 0 1   
## 519 481

#Bar graph to show frequency distribution of gender   
options(repr.plot.width = 10, repr.plot.height = 10)  
barplot(c(gender\_freq), main="A barplot for the gender column.",  
 xlab="gender",  
 ylab="frequency",  
 width=c(30,30),  
 col= 'green')  
#Frequency table for month  
sort(table(advertising$Month), decreasing = TRUE)[1:5]

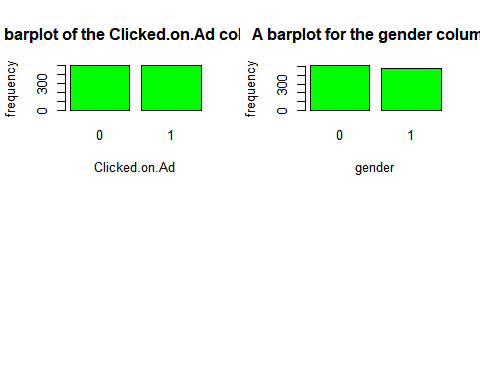
##   
## 02 03 01 04 05   
## 160 156 147 147 147

#Frequency table for day  
sort(table(advertising$Day), decreasing = TRUE)[1:5]

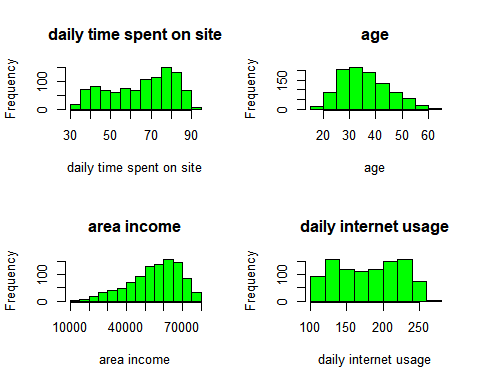
##   
## 03 17 15 10 04   
## 46 42 41 37 36

#Frequency table for hour  
sort(table(advertising$Hour), decreasing = TRUE)[1:5]

##   
## 07 20 09 21 00   
## 54 50 49 48 45



par(mfrow = c(2,2))  
hist(advertising$Daily.Time.Spent.on.Site, col = 'green', main = 'daily time spent on site', xlab = 'daily time spent on site')  
hist(advertising$Age, col = 'green', main = 'age', xlab = 'age')  
hist(advertising$Area.Income, col = 'green', main = 'area income', xlab = 'area income')  
hist(advertising$Daily.Internet.Usage, col = 'green', main ='daily internet usage', xlab = 'daily internet usage')



### Observations from Univariate Analysis

* Most people in the dataset are 31years.
* The highest frequency of area income is 61833.
* Females are more than males but not with a big margin.
* Those who clicked on the ad are equal to those that did not.
* Highest daily internet usage is 167.22.
* The most frequent time spent on site is 62.26
* Most of the data collected is from Czech Republic
* Lisamouth is the most occuring city within the dataset
* All the data was collected in 2016
* February is the most occuring month
* 07:00am appears the time when most ad clicks happen.
* 3rd day of the month is the most prevalent

#6. Bivariate and Multivariate Data Analysis

# covariance  
cov <- cov(advertising[, unlist(lapply(advertising, is.numeric))])  
round(cov, 3)

## Daily.Time.Spent.on.Site Age Area.Income  
## Daily.Time.Spent.on.Site 251.337 -46.174 66130.81  
## Age -46.174 77.186 -21520.93  
## Area.Income 66130.811 -21520.926 179952405.95  
## Daily.Internet.Usage 360.992 -141.635 198762.53  
## Daily.Internet.Usage  
## Daily.Time.Spent.on.Site 360.992  
## Age -141.635  
## Area.Income 198762.532  
## Daily.Internet.Usage 1927.415

# correlation  
cor <- cor(advertising[, unlist(lapply(advertising, is.numeric))])  
round(cor, 3)

## Daily.Time.Spent.on.Site Age Area.Income  
## Daily.Time.Spent.on.Site 1.000 -0.332 0.311  
## Age -0.332 1.000 -0.183  
## Area.Income 0.311 -0.183 1.000  
## Daily.Internet.Usage 0.519 -0.367 0.337  
## Daily.Internet.Usage  
## Daily.Time.Spent.on.Site 0.519  
## Age -0.367  
## Area.Income 0.337  
## Daily.Internet.Usage 1.000

# Clicked.on.Ad data = 1  
clicked <- advertising[advertising$Clicked.on.Ad == 1,]  
head(clicked)

## Daily.Time.Spent.on.Site Age Area.Income Daily.Internet.Usage  
## 8 66.00 48 24593.33 131.76  
## 11 47.64 49 45632.51 122.02  
## 13 69.57 48 51636.92 113.12  
## 15 42.95 33 30976.00 143.56  
## 16 63.45 23 52182.23 140.64  
## 17 55.39 37 23936.86 129.41  
## Ad.Topic.Line City Gender  
## 8 Reactive local challenge Port Jefferybury 1  
## 11 Centralized neutral neural-net West Brandonton 0  
## 13 Centralized content-based focus group West Katiefurt 1  
## 15 Grass-roots coherent extranet West William 0  
## 16 Persistent demand-driven interface New Travistown 1  
## 17 Customizable multi-tasking website West Dylanberg 0  
## Country Clicked.on.Ad Year Month Day Hour  
## 8 Australia 1 2016 03 07 01  
## 11 Qatar 1 2016 03 16 20  
## 13 Egypt 1 2016 06 03 01  
## 15 Barbados 1 2016 03 24 09  
## 16 Spain 1 2016 03 09 03  
## 17 Palestinian Territory 1 2016 01 30 19

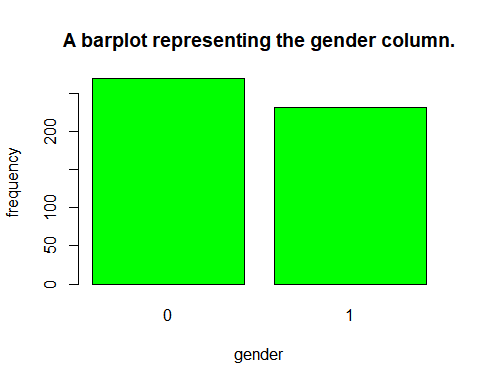
dim(clicked)

## [1] 500 13

# gender v clicked on data  
gender\_frequency <- table(clicked$Gender)  
gender\_frequency

##   
## 0 1   
## 269 231

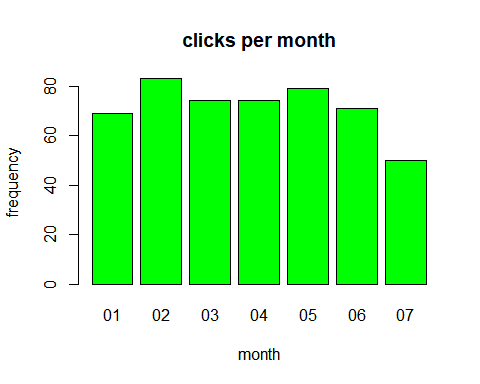
options(repr.plot.width = 10, repr.plot.height = 10)  
barplot(c(gender\_frequency), main="A barplot representing the gender column.",  
 xlab="gender",  
 ylab="frequency",  
 width=c(30,30),  
 col= 'green')



#comparison of month and clicked on ad  
month\_frequency <- table(clicked$Month)  
month\_frequency

##   
## 01 02 03 04 05 06 07   
## 69 83 74 74 79 71 50

#plotting bar chart of gender column  
options(repr.plot.width = 10, repr.plot.height = 10)  
barplot(c(month\_frequency), main="clicks per month",  
 xlab="month",  
 ylab="frequency",  
 col= 'green')



# day v clicked on ad  
sort(table(clicked$Day), decreasing = TRUE)[1:5]

##   
## 03 23 14 09 12   
## 26 22 21 20 20

# hour vclicked on ad  
sort(table(clicked$Hour), decreasing = TRUE)[1:5]

##   
## 09 00 07 18 11   
## 28 26 26 25 24

# area income v clicked on ad  
sort(table(clicked$Area.Income), decreasing = TRUE)[1:5]

##   
## 13996.5 14548.06 14775.5 15598.29 15879.1   
## 1 1 1 1 1

# age v clicked on ad  
sort(table(clicked$Age), decreasing = TRUE)[1:5]

##   
## 45 36 38 41 42   
## 27 25 25 22 20

# country v clicked on ad  
sort(table(clicked$Country), decreasing = TRUE)[1:5]

##   
## Australia Ethiopia Turkey Liberia Liechtenstein   
## 7 7 7 6 6

# city v clicked on ad  
sort(table(clicked$City), decreasing = TRUE)[1:5]

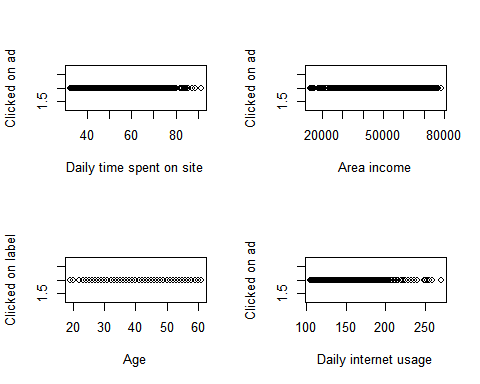
##   
## Lake David Lake James Lisamouth Michelleside Millerbury   
## 2 2 2 2 2

# time spent on site v clicked on ad  
sort(table(clicked$Daily.Time.Spent.on.Site), decreasing = TRUE)[1:5]

##   
## 75.55 32.6 35.49 35.66 35.98   
## 3 2 2 2 2

## Bivariate and Multivariate Graphicals

par(mfrow = c(2,2))  
# daily time spent on site v clicked on ad  
daily.time.spent.on.site <- clicked$Daily.Time.Spent.on.Site  
clicked.on.Ad <- clicked$Clicked.on.Ad  
plot(daily.time.spent.on.site, clicked.on.Ad, xlab='Daily time spent on site', ylab='Clicked on ad')  
# area income v clicked on add  
area.income <- clicked$Area.Income  
clicked.on.ad <- clicked$Clicked.on.Ad  
plot(area.income, clicked.on.ad, xlab='Area income', ylab='Clicked on ad')  
# age v clicked on ad  
age <- clicked$Age  
clicked.on.ad <- clicked$Clicked.on.Ad  
plot(age, clicked.on.ad, xlab='Age', ylab='Clicked on label')  
# daily internet usage v clicked on ad  
daily.internet.usage <- clicked$Daily.Internet.Usage  
clicked.on.ad <- clicked$Clicked.on.Ad  
plot(daily.internet.usage, clicked.on.ad, xlab='Daily internet usage', ylab='Clicked on ad')



#Plotting a correlogram  
library('corrplot')

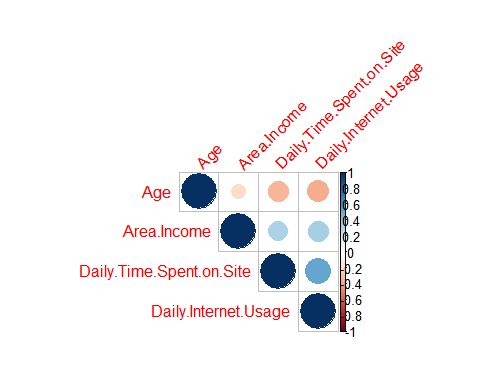
## corrplot 0.92 loaded

corrplot(cor, type='upper', order='hclust', tl.color='black', tl.srt=45)

## Warning in text.default(pos.xlabel[, 1], pos.xlabel[, 2], newcolnames, srt =  
## tl.srt, : "tl.color" is not a graphical parameter

## Warning in text.default(pos.ylabel[, 1], pos.ylabel[, 2], newrownames, col =  
## tl.col, : "tl.color" is not a graphical parameter

## Warning in title(title, ...): "tl.color" is not a graphical parameter



#7. Modeling

### Feature Engineering

#dropping the year, country, city and ad topic line columns  
advertising$Ad.Topic.Line <- NULL  
advertising$City <- NULL  
advertising$Country <- NULL  
advertising$Year <- NULL  
head(advertising)

## Daily.Time.Spent.on.Site Age Area.Income Daily.Internet.Usage Gender  
## 1 68.95 35 61833.90 256.09 0  
## 2 80.23 31 68441.85 193.77 1  
## 3 69.47 26 59785.94 236.50 0  
## 4 74.15 29 54806.18 245.89 1  
## 5 68.37 35 73889.99 225.58 0  
## 6 59.99 23 59761.56 226.74 1  
## Clicked.on.Ad Month Day Hour  
## 1 0 03 27 00  
## 2 0 04 04 01  
## 3 0 03 13 20  
## 4 0 01 10 02  
## 5 0 06 03 03  
## 6 0 05 19 14

advertising[,7:9] <- sapply(advertising[,7:9], as.character)  
advertising[,7:9] <- sapply(advertising[,7:9], as.numeric)  
head(advertising)

## Daily.Time.Spent.on.Site Age Area.Income Daily.Internet.Usage Gender  
## 1 68.95 35 61833.90 256.09 0  
## 2 80.23 31 68441.85 193.77 1  
## 3 69.47 26 59785.94 236.50 0  
## 4 74.15 29 54806.18 245.89 1  
## 5 68.37 35 73889.99 225.58 0  
## 6 59.99 23 59761.56 226.74 1  
## Clicked.on.Ad Month Day Hour  
## 1 0 3 27 0  
## 2 0 4 4 1  
## 3 0 3 13 20  
## 4 0 1 10 2  
## 5 0 6 3 3  
## 6 0 5 19 14

advertising$Gender <- as.numeric(as.character(advertising$Gender))  
head(advertising)

## Daily.Time.Spent.on.Site Age Area.Income Daily.Internet.Usage Gender  
## 1 68.95 35 61833.90 256.09 0  
## 2 80.23 31 68441.85 193.77 1  
## 3 69.47 26 59785.94 236.50 0  
## 4 74.15 29 54806.18 245.89 1  
## 5 68.37 35 73889.99 225.58 0  
## 6 59.99 23 59761.56 226.74 1  
## Clicked.on.Ad Month Day Hour  
## 1 0 3 27 0  
## 2 0 4 4 1  
## 3 0 3 13 20  
## 4 0 1 10 2  
## 5 0 6 3 3  
## 6 0 5 19 14

# Normalizing   
normalize <- function(x){  
 return ((x-min(x)) / (max(x)-min(x)))  
}  
  
advertising$Area.Income<- normalize(advertising$Area.Income)  
advertising$Daily.Internet.Usage<- normalize(advertising$Daily.Internet.Usage)  
advertising$Daily.Time.Spent.on.Site<- normalize(advertising$Daily.Time.Spent.on.Site)  
advertising$Day<- normalize(advertising$Day)  
advertising$Gender<- normalize(advertising$Gender)  
advertising$Month<- normalize(advertising$Month)  
advertising$Hour<- normalize(advertising$Hour)  
advertising$Age<- normalize(advertising$Age)  
head(advertising)

## Daily.Time.Spent.on.Site Age Area.Income Daily.Internet.Usage Gender  
## 1 0.6178820 0.3809524 0.7304725 0.9160310 0  
## 2 0.8096209 0.2857143 0.8313752 0.5387456 1  
## 3 0.6267211 0.1666667 0.6992003 0.7974331 0  
## 4 0.7062723 0.2380952 0.6231599 0.8542802 1  
## 5 0.6080231 0.3809524 0.9145678 0.7313234 0  
## 6 0.4655788 0.0952381 0.6988280 0.7383460 1  
## Clicked.on.Ad Month Day Hour  
## 1 0 0.3333333 0.86666667 0.00000000  
## 2 0 0.5000000 0.10000000 0.04347826  
## 3 0 0.3333333 0.40000000 0.86956522  
## 4 0 0.0000000 0.30000000 0.08695652  
## 5 0 0.8333333 0.06666667 0.13043478  
## 6 0 0.6666667 0.60000000 0.60869565

advertising$Geder <- NULL  
head(advertising)

## Daily.Time.Spent.on.Site Age Area.Income Daily.Internet.Usage Gender  
## 1 0.6178820 0.3809524 0.7304725 0.9160310 0  
## 2 0.8096209 0.2857143 0.8313752 0.5387456 1  
## 3 0.6267211 0.1666667 0.6992003 0.7974331 0  
## 4 0.7062723 0.2380952 0.6231599 0.8542802 1  
## 5 0.6080231 0.3809524 0.9145678 0.7313234 0  
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## 4 0 0.0000000 0.30000000 0.08695652  
## 5 0 0.8333333 0.06666667 0.13043478  
## 6 0 0.6666667 0.60000000 0.60869565

### Decision Trees

#Loading libraries  
library(rpart,quietly = TRUE)  
library(caret,quietly = TRUE)

##   
## Attaching package: 'caret'

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

#data splicing  
set.seed(123)  
train <- sample(1:nrow(advertising),size = ceiling(0.80\*nrow(advertising)),replace = FALSE)  
# train  
ad\_train <- advertising[train,]  
# test   
ad\_test <- advertising[-train,]

#Penalty matrix  
penalty.matrix <- matrix(c(0, 1, 10,0), byrow = TRUE, nrow = 2)  
# the model  
tree <- rpart(Clicked.on.Ad ~., data = ad\_train, parms=list(loss=penalty.matrix), method = 'class')  
tree

## n= 800   
##   
## node), split, n, loss, yval, (yprob)  
## \* denotes terminal node  
##   
## 1) root 800 389 1 (0.486250000 0.513750000)   
## 2) Daily.Internet.Usage>=0.5662308 319 270 0 (0.915360502 0.084639498)   
## 4) Daily.Time.Spent.on.Site>=0.5281319 289 90 0 (0.968858131 0.031141869)   
## 8) Area.Income>=0.5787783 238 30 0 (0.987394958 0.012605042)   
## 16) Daily.Time.Spent.on.Site>=0.6013089 215 10 0 (0.995348837 0.004651163) \*  
## 17) Daily.Time.Spent.on.Site< 0.6013089 23 20 0 (0.913043478 0.086956522)   
## 34) Daily.Time.Spent.on.Site< 0.5802312 16 0 0 (1.000000000 0.000000000) \*  
## 35) Daily.Time.Spent.on.Site>=0.5802312 7 5 1 (0.714285714 0.285714286) \*  
## 9) Area.Income< 0.5787783 51 45 1 (0.882352941 0.117647059)   
## 18) Age< 0.202381 19 0 0 (1.000000000 0.000000000) \*  
## 19) Age>=0.202381 32 26 1 (0.812500000 0.187500000)   
## 38) Day>=0.45 17 10 0 (0.941176471 0.058823529) \*  
## 39) Day< 0.45 15 10 1 (0.666666667 0.333333333) \*  
## 5) Daily.Time.Spent.on.Site< 0.5281319 30 12 1 (0.400000000 0.600000000) \*  
## 3) Daily.Internet.Usage< 0.5662308 481 97 1 (0.201663202 0.798336798)   
## 6) Daily.Time.Spent.on.Site>=0.7324494 83 65 1 (0.783132530 0.216867470)   
## 12) Daily.Internet.Usage>=0.4720002 37 0 0 (1.000000000 0.000000000) \*  
## 13) Daily.Internet.Usage< 0.4720002 46 28 1 (0.608695652 0.391304348)   
## 26) Daily.Internet.Usage>=0.3478932 25 22 1 (0.880000000 0.120000000)   
## 52) Month< 0.4166667 13 0 0 (1.000000000 0.000000000) \*  
## 53) Month>=0.4166667 12 9 1 (0.750000000 0.250000000) \*  
## 27) Daily.Internet.Usage< 0.3478932 21 6 1 (0.285714286 0.714285714) \*  
## 7) Daily.Time.Spent.on.Site< 0.7324494 398 32 1 (0.080402010 0.919597990)   
## 14) Area.Income>=0.9611263 8 7 1 (0.875000000 0.125000000) \*  
## 15) Area.Income< 0.9611263 390 25 1 (0.064102564 0.935897436)   
## 30) Daily.Time.Spent.on.Site>=0.6013089 50 19 1 (0.380000000 0.620000000)   
## 60) Daily.Internet.Usage>=0.4080094 13 0 0 (1.000000000 0.000000000) \*  
## 61) Daily.Internet.Usage< 0.4080094 37 6 1 (0.162162162 0.837837838) \*  
## 31) Daily.Time.Spent.on.Site< 0.6013089 340 6 1 (0.017647059 0.982352941) \*

#making predictions with our model  
pred <- predict(object = tree, ad\_test[,-6], type = 'class')  
#calculating accuracy  
t <- table(ad\_test$Clicked.on.Ad, pred)  
confusionMatrix(t)

## Confusion Matrix and Statistics  
##   
## pred  
## 0 1  
## 0 91 20  
## 1 3 86  
##   
## Accuracy : 0.885   
## 95% CI : (0.8325, 0.9257)  
## No Information Rate : 0.53   
## P-Value [Acc > NIR] : < 2.2e-16   
##   
## Kappa : 0.7715   
##   
## Mcnemar's Test P-Value : 0.0008492   
##   
## Sensitivity : 0.9681   
## Specificity : 0.8113   
## Pos Pred Value : 0.8198   
## Neg Pred Value : 0.9663   
## Prevalence : 0.4700   
## Detection Rate : 0.4550   
## Detection Prevalence : 0.5550   
## Balanced Accuracy : 0.8897   
##   
## 'Positive' Class : 0   
##

## 8. Conclusion

1. There are more females than males in our data.
2. 500 people clicked on the ads while 500 others did not click on the ads.
3. The average area income is 55000.
4. The average age of most audience is 36 years
5. Lisamouth and Williamsport cities both had the highest number of individuals in the dataset.

## 9. Recommendations

1. Persons aged between 25 and 35 years old were the most in the data, thus creating ads to target these age group would be very impactful.
2. Creating ads that target men makes more sense since men have more income compared to women.