

Independent Project: Data Cleaning, EDA and K-means Clustering using R

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#1. Defining the Question

##a) Objective To 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: * Defining the question, the metric for success, the context, experimental design taken. * Reading and explore the given dataset. * Defining the appropriateness of the available data to answer the given question. * Finding and deal with outliers, anomalies, and missing data within the dataset. * Performing univariate and bivariate analysis recording my observations. * Implementing the solution. * Challenging 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>)

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

```
## v ggplot2 3.3.6      v purrr  0.3.4
## v tibble  3.1.7      v dplyr  1.0.9
## v tidyr   1.2.0      v stringr 1.4.0
## v readr   2.1.2      v forcats 0.5.1
```

```
## -- Conflicts ----- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()    masks stats::lag()
```

```
## Loading required package: xts
```

```

## Loading required package: zoo

##
## Attaching package: 'zoo'

## The following objects are masked from 'package:base':
##
##   as.Date, as.Date.numeric

##
## Attaching package: 'xts'

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

##
## Attaching package: 'PerformanceAnalytics'

## The following object is masked from 'package:graphics':
##
##   legend

##
## Attaching package: 'e1071'

## The following objects are masked from 'package:PerformanceAnalytics':
##
##   kurtosis, skewness

## Loading required package: lattice

##
## Attaching package: 'caret'

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

## Loaded gbm 2.1.8

## corrplot 0.92 loaded

##
## Attaching package: 'MASS'

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

```

```

## naivebayes 0.9.7 loaded

## Loading required package: Matrix

##
## Attaching package: 'Matrix'

## The following objects are masked from 'package:tidyr':
##
##   expand, pack, unpack

## Loaded glmnet 4.1-4

## Loading required package: survival

##
## Attaching package: 'survival'

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

## Loading required package: Formula

##
## Attaching package: 'Hmisc'

## The following object is masked from 'package:e1071':
##
##   impute

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

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

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

## Type 'citation("pROC")' for a citation.

##
## Attaching package: 'pROC'

## The following objects are masked from 'package:stats':
##
##   cov, smooth, var

```

```

## randomForest 4.7-1.1

## Type rfNews() to see new features/changes/bug fixes.

##
## Attaching package: 'randomForest'

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

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

##
## Attaching package: 'scales'

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

## The following object is masked from 'package:readr':
##
##      col_factor

## Welcome! Want to learn more? See two factoextra-related books at https://goo.gl/ve3WBa

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

##
## Attaching package: 'GGally'

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

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

#3. Checking the data

# Viewing the top 6 entries
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
```

```
#viewing the whole data set
#View(advertising)
#Data types of the columns
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 standardi
## $ City : chr  "Wrightburgh" "West Jodi" "Davidton" "West Terrifurt" ...
## $ Male : int  0 1 0 1 0 1 0 1 1 1 ...
## $ Country : chr  "Tunisia" "Nauru" "San Marino" "Italy" ...
## $ Timestamp : chr  "2016-03-27 00:53:11" "2016-04-04 01:39:02" "2016-03-13 20:35:42" ...
## $ Clicked.on.Ad : int  0 0 0 0 0 0 0 1 0 0 ...
```

```
#Statistical summary of the data set
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
```

```
#checking the number of entries and attributes
dim(advertising)
```

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

```
#checking the class of our object
class(advertising)
```

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

#4. Tidying the data/ Data Cleaning

Checking for missing data

```
#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 in our data set. *Checking for duplicates*

```
#Data consistency
duplicated.rows <- advertising[duplicated(advertising),]
duplicated.rows
```

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

```
anyDuplicated(advertising)
```

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

There is no duplicated data in our dataset

```
#Changing the male dt
advertising$Male <- as.factor(advertising$Male)
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
```

```
#converting 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 standardi
## $ City                      : chr   "Wrightburgh" "West Jodi" "Davidton" "West Terrifurt" ...
## $ Male                      : 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"
## $ 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')
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(Male): '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
## 309	84.88	32	63924.82	186.48
## 310	54.92	54	23975.35	161.16
## 311	76.56	34	70179.11	221.53
## 312	69.74	49	66524.80	243.37
## 313	75.55	22	41851.38	169.40
## 314	72.19	33	61275.18	250.35
## 315	84.29	41	60638.38	232.54
## 316	73.89	39	47160.53	110.68
## 317	75.84	21	48537.18	186.98
## 318	73.38	25	53058.91	236.19
## 319	80.72	31	68614.98	186.37
## 320	62.06	44	44174.25	105.00
## 321	51.50	34	67050.16	135.31
## 322	90.97	37	54520.14	180.77
## 323	86.78	30	54952.42	170.13
## 324	66.18	35	69476.42	243.61
## 325	84.33	41	54989.93	240.95
## 326	36.87	36	29398.61	195.91
## 327	34.78	48	42861.42	208.21
## 328	76.84	32	65883.39	231.59
## 329	67.05	25	65421.39	220.92
## 330	41.47	31	60953.93	219.79

## 331	80.71	26	58476.57	200.58
## 332	80.09	31	66636.84	214.08
## 333	56.30	49	67430.96	135.24
## 334	79.36	34	57260.41	245.78
## 335	86.38	40	66359.32	188.27
## 336	38.94	41	57587.00	142.67
## 337	87.26	35	63060.55	184.03
## 338	75.32	28	59998.50	233.60
## 339	74.38	40	74024.61	220.05
## 340	65.90	22	60550.66	211.39
## 341	36.31	47	57983.30	168.92
## 342	72.23	48	52736.33	115.35
## 343	88.12	38	46653.75	230.91
## 344	83.97	28	56986.73	205.50
## 345	61.09	26	55336.18	131.68
## 346	65.77	21	42162.90	218.61
## 347	81.58	25	39699.13	199.39
## 348	37.87	52	56394.82	188.56
## 349	76.20	37	75044.35	178.51
## 350	60.91	19	53309.61	184.94
## 351	74.49	28	58996.12	237.34
## 352	73.71	23	56605.12	211.38
## 353	78.19	30	62475.99	228.81
## 354	79.54	44	70492.60	217.68
## 355	74.87	52	43698.53	126.97
## 356	87.09	36	57737.51	221.98
## 357	37.45	47	31281.01	167.86
## 358	49.84	39	45800.48	111.59
## 359	51.38	59	42362.49	158.56
## 360	83.40	34	66691.23	207.87
## 361	38.91	33	56369.74	150.80
## 362	62.14	41	59397.89	110.93
## 363	79.72	28	66025.11	193.80
## 364	73.30	36	68211.35	135.72
## 365	69.11	42	73608.99	231.48
## 366	71.90	54	61228.96	140.15
## 367	72.45	29	72325.91	195.36
## 368	77.07	40	44559.43	261.02
## 369	74.62	36	73207.15	217.79
## 370	82.07	25	46722.07	205.38
## 371	58.60	50	45400.50	113.70
## 372	36.08	45	41417.27	151.47
## 373	79.44	26	60845.55	206.79
## 374	41.73	47	60812.77	144.71
## 375	73.19	25	64267.88	203.74
## 376	77.60	24	58151.87	197.33
## 377	89.00	37	52079.18	222.26
## 378	69.20	42	26023.99	123.80
## 379	67.56	31	62318.38	125.45
## 380	81.11	39	56216.57	248.19
## 381	80.22	30	61806.31	224.58
## 382	43.63	41	51662.24	123.25
## 383	77.66	29	67080.94	168.15
## 384	74.63	26	51975.41	235.99

## 385	49.67	27	28019.09	153.69
## 386	80.59	37	67744.56	224.23
## 387	83.49	33	66574.00	190.75
## 388	44.46	42	30487.48	132.66
## 389	68.10	40	74903.41	227.73
## 390	63.88	38	19991.72	136.85
## 391	78.83	36	66050.63	234.64
## 392	79.97	44	70449.04	216.00
## 393	80.51	28	64008.55	200.28
## 394	62.26	26	70203.74	202.77
## 395	66.99	47	27262.51	124.44
## 396	71.05	20	49544.41	204.22
## 397	42.05	51	28357.27	174.55
## 398	50.52	28	66929.03	219.69
## 399	76.24	40	75524.78	198.32
## 400	77.29	27	66265.34	201.24
## 401	35.98	47	55993.68	165.52
## 402	84.95	34	56379.30	230.36
## 403	39.34	43	31215.88	148.93
## 404	87.23	29	51015.11	202.12
## 405	57.24	52	46473.14	117.35
## 406	81.58	41	55479.62	248.16
## 407	56.34	50	68713.70	139.02
## 408	48.73	27	34191.23	142.04
## 409	51.68	49	51067.54	258.62
## 410	35.34	45	46693.76	152.86
## 411	48.09	33	19345.36	180.42
## 412	78.68	29	66225.72	208.05
## 413	68.82	20	38609.20	205.64
## 414	56.99	40	37713.23	108.15
## 415	86.63	39	63764.28	209.64
## 416	41.18	43	41866.55	129.25
## 417	71.03	32	57846.68	120.85
## 418	72.92	29	69428.73	217.10
## 419	77.14	24	60283.98	184.88
## 420	60.70	43	79332.33	192.60
## 421	34.30	41	53167.68	160.74
## 422	83.71	45	64564.07	220.48
## 423	53.38	35	60803.37	120.06
## 424	58.03	31	28387.42	129.33
## 425	43.59	36	58849.77	132.31
## 426	60.07	42	65963.37	120.75
## 427	54.43	37	75180.20	154.74
## 428	81.99	33	61270.14	230.90
## 429	60.53	29	56759.48	123.28
## 430	84.69	31	46160.63	231.85
## 431	88.72	32	43870.51	211.87
## 432	88.89	35	50439.49	218.80
## 433	69.58	43	28028.74	255.07
## 434	85.23	36	64238.71	212.92
## 435	83.55	39	65816.38	221.18
## 436	56.66	42	72684.44	139.42
## 437	56.39	27	38817.40	248.12
## 438	76.24	27	63976.44	214.42

## 439	57.64	36	37212.54	110.25
## 440	78.18	23	52691.79	167.67
## 441	46.04	32	65499.93	147.92
## 442	79.40	35	63966.72	236.87
## 443	36.44	39	52400.88	147.64
## 444	53.14	38	49111.47	109.00
## 445	32.84	40	41232.89	171.72
## 446	73.72	32	52140.04	256.40
## 447	38.10	34	60641.09	214.38
## 448	73.93	44	74180.05	218.22
## 449	51.87	50	51869.87	119.65
## 450	77.69	22	48852.58	169.88
## 451	43.41	28	59144.02	160.73
## 452	55.92	24	33951.63	145.08
## 453	80.67	34	58909.36	239.76
## 454	83.42	25	49850.52	183.42
## 455	82.12	52	28679.93	201.15
## 456	66.17	33	69869.66	238.45
## 457	43.01	35	48347.64	127.37
## 458	80.05	25	45959.86	219.94
## 459	64.88	42	70005.51	129.80
## 460	79.82	26	51512.66	223.28
## 461	48.03	40	25598.75	134.60
## 462	32.99	45	49282.87	177.46
## 463	74.88	27	67240.25	175.17
## 464	36.49	52	42136.33	196.61
## 465	88.04	45	62589.84	191.17
## 466	45.70	33	67384.31	151.12
## 467	82.38	35	25603.93	159.60
## 468	52.68	23	39616.00	149.20
## 469	65.59	47	28265.81	121.81
## 470	65.65	25	63879.72	224.92
## 471	43.84	36	70592.81	167.42
## 472	67.69	37	76408.19	216.57
## 473	78.37	24	55015.08	207.27
## 474	81.46	29	51636.12	231.54
## 475	47.48	31	29359.20	141.34
## 476	75.15	33	71296.67	219.49
## 477	78.76	24	46422.76	219.98
## 478	44.96	50	52802.00	132.71
## 479	39.56	41	59243.46	143.13
## 480	39.76	28	35350.55	196.83
## 481	57.11	22	59677.64	207.17
## 482	83.26	40	70225.60	187.76
## 483	69.42	25	65791.17	213.38
## 484	50.60	30	34191.13	129.88
## 485	46.20	37	51315.38	119.30
## 486	66.88	35	62790.96	119.47
## 487	83.97	40	66291.67	158.42
## 488	76.56	30	68030.18	213.75
## 489	35.49	48	43974.49	159.77
## 490	80.29	31	49457.48	244.87
## 491	50.19	40	33987.27	117.30
## 492	59.12	33	28210.03	124.54

## 493	59.88	30	75535.14	193.63
## 494	59.70	28	49158.50	120.25
## 495	67.80	30	39809.69	117.75
## 496	81.59	35	65826.53	223.16
## 497	81.10	29	61172.07	216.49
## 498	41.70	39	42898.21	126.95
## 499	73.94	27	68333.01	173.49
## 500	58.35	37	70232.95	132.63
## 501	51.56	46	63102.19	124.85
## 502	79.81	37	51847.26	253.17
## 503	66.17	26	63580.22	228.70
## 504	58.21	37	47575.44	105.94
## 505	66.12	49	39031.89	113.80
## 506	80.47	42	70505.06	215.18
## 507	77.05	31	62161.26	236.64
## 508	49.99	41	61068.26	121.07
## 509	80.30	58	49090.51	173.43
## 510	79.36	33	62330.75	234.72
## 511	57.86	30	18819.34	166.86
## 512	70.29	26	62053.37	231.37
## 513	84.53	33	61922.06	215.18
## 514	59.13	44	49525.37	106.04
## 515	81.51	41	53412.32	250.03
## 516	42.94	37	56681.65	130.40
## 517	84.81	32	43299.63	233.93
## 518	82.79	34	47997.75	132.08
## 519	59.22	55	39131.53	126.39
## 520	35.00	40	46033.73	151.25
## 521	46.61	42	65856.74	136.18
## 522	63.26	29	54787.37	120.46
## 523	79.16	32	69562.46	202.90
## 524	67.94	43	68447.17	128.16
## 525	79.91	32	62772.42	230.18
## 526	66.14	41	78092.95	165.27
## 527	43.65	39	63649.04	138.87
## 528	59.61	21	60637.62	198.45
## 529	46.61	52	27241.11	156.99
## 530	89.37	34	42760.22	162.03
## 531	65.10	49	59457.52	118.10
## 532	53.44	42	42907.89	108.17
## 533	79.53	51	46132.18	244.91
## 534	91.43	39	46964.11	209.91
## 535	73.57	30	70377.23	212.38
## 536	78.76	32	70012.83	208.02
## 537	76.49	23	56457.01	181.11
## 538	61.72	26	67279.06	218.49
## 539	84.53	35	54773.99	236.29
## 540	72.03	34	70783.94	230.95
## 541	77.47	36	70510.59	222.91
## 542	75.65	39	64021.55	247.90
## 543	78.15	33	72042.85	194.37
## 544	63.80	38	36037.33	108.70
## 545	76.59	29	67526.92	211.64
## 546	42.60	55	55121.65	168.29

## 547	78.77	28	63497.62	211.83
## 548	83.40	39	60879.48	235.01
## 549	79.53	33	61467.33	236.72
## 550	73.89	35	70495.64	229.99
## 551	75.80	36	71222.40	224.90
## 552	81.95	31	64698.58	208.76
## 553	56.39	58	32252.38	154.23
## 554	44.73	35	55316.97	127.56
## 555	38.35	33	47447.89	145.48
## 556	72.53	37	73474.82	223.93
## 557	56.20	49	53549.94	114.85
## 558	79.67	28	58576.12	226.79
## 559	75.42	26	63373.70	164.25
## 560	78.64	31	60283.47	235.28
## 561	67.69	44	37345.34	109.22
## 562	38.35	41	34886.01	144.69
## 563	59.52	44	67511.86	251.08
## 564	62.26	37	77988.71	166.19
## 565	64.75	36	63001.03	117.66
## 566	79.97	26	61747.98	185.45
## 567	47.90	42	48467.68	114.53
## 568	80.38	30	55130.96	238.06
## 569	64.51	42	79484.80	190.71
## 570	71.28	37	67307.43	246.72
## 571	50.32	40	27964.60	125.65
## 572	72.76	33	66431.87	240.63
## 573	72.80	35	63551.67	249.54
## 574	74.59	23	40135.06	158.35
## 575	46.66	45	49101.67	118.16
## 576	48.86	54	53188.69	134.46
## 577	37.05	39	49742.83	142.81
## 578	81.21	36	63394.41	233.04
## 579	66.89	23	64433.99	208.24
## 580	68.11	38	73884.48	231.21
## 581	69.15	46	36424.94	112.72
## 582	65.72	36	28275.48	120.12
## 583	40.04	27	48098.86	161.58
## 584	68.60	33	68448.94	135.08
## 585	56.16	25	66429.84	164.25
## 586	78.60	46	41768.13	254.59
## 587	78.29	38	57844.96	252.07
## 588	43.83	45	35684.82	129.01
## 589	77.31	32	62792.43	238.10
## 590	39.86	28	51171.23	161.24
## 591	66.77	25	58847.07	141.13
## 592	57.20	42	57739.03	110.66
## 593	73.15	25	64631.22	211.12
## 594	82.07	24	50337.93	193.97
## 595	49.84	38	67781.31	135.24
## 596	43.97	36	68863.95	156.97
## 597	77.25	27	55901.12	231.38
## 598	74.84	37	64775.10	246.44
## 599	83.53	36	67686.16	204.56
## 600	38.63	48	57777.11	222.11

## 601	84.00	48	46868.53	136.21
## 602	52.13	50	40926.93	118.27
## 603	71.83	40	22205.74	135.48
## 604	78.36	24	58920.44	196.77
## 605	50.18	35	63006.14	127.82
## 606	64.67	51	24316.61	138.35
## 607	69.50	26	68348.99	203.84
## 608	65.22	30	66263.37	240.09
## 609	62.06	40	63493.60	116.27
## 610	84.29	30	56984.09	160.33
## 611	32.91	37	51691.55	181.02
## 612	39.50	31	49911.25	148.19
## 613	75.19	31	33502.57	245.76
## 614	76.21	31	65834.97	228.94
## 615	67.76	31	66176.97	242.59
## 616	40.01	53	51463.17	161.77
## 617	52.70	41	41059.64	109.34
## 618	68.41	38	61428.18	259.76
## 619	35.55	39	51593.46	151.18
## 620	74.54	24	57518.73	219.75
## 621	81.75	24	52656.13	190.08
## 622	87.85	31	52178.98	210.27
## 623	60.23	60	46239.14	151.54
## 624	87.97	35	48918.55	149.25
## 625	78.17	27	65227.79	192.27
## 626	67.91	23	55002.05	146.80
## 627	85.77	27	52261.73	191.78
## 628	41.16	49	59448.44	150.83
## 629	53.54	39	47314.45	108.03
## 630	73.94	26	55411.06	236.15
## 631	63.43	29	66504.16	236.75
## 632	84.59	36	47169.14	241.80
## 633	70.13	31	70889.68	224.98
## 634	40.19	37	55358.88	136.99
## 635	58.95	55	56242.70	131.29
## 636	35.76	51	45522.44	195.07
## 637	59.36	49	46931.03	110.84
## 638	91.10	40	55499.69	198.13
## 639	61.04	41	75805.12	149.21
## 640	74.06	23	40345.49	225.99
## 641	64.63	45	15598.29	158.80
## 642	81.29	28	33239.20	219.72
## 643	76.07	36	68033.54	235.56
## 644	75.92	22	38427.66	182.65
## 645	78.35	46	53185.34	253.48
## 646	46.14	28	39723.97	137.97
## 647	44.33	41	43386.07	120.63
## 648	46.43	28	53922.43	137.20
## 649	66.04	27	71881.84	199.76
## 650	84.31	29	47139.21	225.87
## 651	83.66	38	68877.02	175.14
## 652	81.25	33	65186.58	222.35
## 653	85.26	32	55424.24	224.07
## 654	86.53	46	46500.11	233.36

## 655	76.44	26	58820.16	224.20
## 656	52.84	43	28495.21	122.31
## 657	85.24	31	61840.26	182.84
## 658	74.71	46	37908.29	258.06
## 659	82.95	39	69805.70	201.29
## 660	76.42	26	60315.19	223.16
## 661	42.04	49	67323.00	182.11
## 662	46.28	26	50055.33	228.78
## 663	48.26	50	43573.66	122.45
## 664	71.03	55	28186.65	150.77
## 665	81.37	33	66412.04	215.04
## 666	58.05	32	15879.10	195.54
## 667	75.00	29	63965.16	230.36
## 668	79.61	31	58342.63	235.97
## 669	52.56	31	33147.19	250.36
## 670	62.18	33	65899.68	126.44
## 671	77.89	26	64188.50	201.54
## 672	66.08	61	58966.22	184.23
## 673	89.21	33	44078.24	210.53
## 674	49.96	55	60968.62	151.94
## 675	77.44	28	65620.25	210.39
## 676	82.58	38	65496.78	225.23
## 677	39.36	29	52462.04	161.79
## 678	47.23	38	70582.55	149.80
## 679	87.85	34	51816.27	153.01
## 680	65.57	46	23410.75	130.86
## 681	78.01	26	62729.40	200.71
## 682	44.15	28	48867.67	141.96
## 683	43.57	36	50971.73	125.20
## 684	76.83	28	67990.84	192.81
## 685	42.06	34	43241.19	131.55
## 686	76.27	27	60082.66	226.69
## 687	74.27	37	65180.97	247.05
## 688	73.27	28	67301.39	216.24
## 689	74.58	36	70701.31	230.52
## 690	77.50	28	60997.84	225.34
## 691	87.16	33	60805.93	197.15
## 692	87.16	37	50711.68	231.95
## 693	66.26	47	14548.06	179.04
## 694	65.15	29	41335.84	117.30
## 695	68.25	33	76480.16	198.86
## 696	73.49	38	67132.46	244.23
## 697	39.19	54	52581.16	173.05
## 698	80.15	25	55195.61	214.49
## 699	86.76	28	48679.54	189.91
## 700	73.88	29	63109.74	233.61
## 701	58.60	19	44490.09	197.93
## 702	69.77	54	57667.99	132.27
## 703	87.27	30	51824.01	204.27
## 704	77.65	28	66198.66	208.01
## 705	76.02	40	73174.19	219.55
## 706	78.84	26	56593.80	217.66
## 707	71.33	23	31072.44	169.40
## 708	81.90	41	66773.83	225.47

## 709	46.89	48	72553.94	176.78
## 710	77.80	57	43708.88	152.94
## 711	45.44	43	48453.55	119.27
## 712	69.96	31	73413.87	214.06
## 713	87.35	35	58114.30	158.29
## 714	49.42	53	45465.25	128.00
## 715	71.27	21	50147.72	216.03
## 716	49.19	38	61004.51	123.08
## 717	39.96	35	53898.89	138.52
## 718	85.01	29	59797.64	192.50
## 719	68.95	51	74623.27	185.85
## 720	67.59	45	58677.69	113.69
## 721	75.71	34	62109.80	246.06
## 722	43.07	36	60583.02	137.63
## 723	39.47	43	65576.05	163.48
## 724	48.22	40	73882.91	214.33
## 725	76.76	25	50468.36	230.77
## 726	78.74	27	51409.45	234.75
## 727	67.47	24	60514.05	225.05
## 728	81.17	30	57195.96	231.91
## 729	89.66	34	52802.58	171.23
## 730	79.60	28	56570.06	227.37
## 731	65.53	19	51049.47	190.17
## 732	61.87	35	66629.61	250.20
## 733	83.16	41	70185.06	194.95
## 734	44.11	41	43111.41	121.24
## 735	56.57	26	56435.60	131.98
## 736	83.91	29	53223.58	222.87
## 737	79.80	28	57179.91	229.88
## 738	71.23	52	41521.28	122.59
## 739	47.23	43	73538.09	210.87
## 740	82.37	30	63664.32	207.44
## 741	43.63	38	61757.12	135.25
## 742	70.90	28	71727.51	190.95
## 743	71.90	29	72203.96	193.29
## 744	62.12	37	50671.60	105.86
## 745	67.35	29	47510.42	118.69
## 746	57.99	50	62466.10	124.58
## 747	66.80	29	59683.16	248.51
## 748	49.13	32	41097.17	120.49
## 749	45.11	58	39799.73	195.69
## 750	54.35	42	76984.21	164.02
## 751	61.82	59	57877.15	151.93
## 752	77.75	31	59047.91	240.64
## 753	70.61	28	72154.68	190.12
## 754	82.72	31	65704.79	179.82
## 755	76.87	36	72948.76	212.59
## 756	65.07	34	73941.91	227.53
## 757	56.93	37	57887.64	111.80
## 758	48.86	35	62463.70	128.37
## 759	36.56	29	42838.29	195.89
## 760	85.73	32	43778.88	147.75
## 761	75.81	40	71157.05	229.19
## 762	72.94	31	74159.69	190.84

## 763	53.63	54	50333.72	126.29
## 764	52.35	25	33293.78	147.61
## 765	52.84	51	38641.20	121.57
## 766	51.58	33	49822.78	115.91
## 767	42.32	29	63891.29	187.09
## 768	55.04	42	43881.73	106.96
## 769	68.58	41	13996.50	171.54
## 770	85.54	27	48761.14	175.43
## 771	71.14	30	69758.31	224.82
## 772	64.38	19	52530.10	180.47
## 773	88.85	40	58363.12	213.96
## 774	66.79	60	60575.99	198.30
## 775	32.60	45	48206.04	185.47
## 776	43.88	54	31523.09	166.85
## 777	56.46	26	66187.58	151.63
## 778	72.18	30	69438.04	225.02
## 779	52.67	44	14775.50	191.26
## 780	80.55	35	68016.90	219.91
## 781	67.85	41	78520.99	202.70
## 782	75.55	36	31998.72	123.71
## 783	80.46	29	56909.30	230.78
## 784	82.69	29	61161.29	167.41
## 785	35.21	39	52340.10	154.00
## 786	36.37	40	47338.94	144.53
## 787	74.07	22	50950.24	165.43
## 788	59.96	33	77143.61	197.66
## 789	85.62	29	57032.36	195.68
## 790	40.88	33	48554.45	136.18
## 791	36.98	31	39552.49	167.87
## 792	35.49	47	36884.23	170.04
## 793	56.56	26	68783.45	204.47
## 794	36.62	32	51119.93	162.44
## 795	49.35	49	44304.13	119.86
## 796	75.64	29	69718.19	204.82
## 797	79.22	27	63429.18	198.79
## 798	77.05	34	65756.36	236.08
## 799	66.83	46	77871.75	196.17
## 800	76.20	24	47258.59	228.81
## 801	56.64	29	55984.89	123.24
## 802	53.33	34	44275.13	111.63
## 803	50.63	50	25767.16	142.23
## 804	41.84	49	37605.11	139.32
## 805	53.92	41	25739.09	125.46
## 806	83.89	28	60188.38	180.88
## 807	55.32	43	67682.32	127.65
## 808	53.22	44	44307.18	108.85
## 809	43.16	35	25371.52	156.11
## 810	67.51	43	23942.61	127.20
## 811	43.16	29	50666.50	143.04
## 812	79.89	30	50356.06	241.38
## 813	84.25	32	63936.50	170.90
## 814	74.18	28	69874.18	203.87
## 815	85.78	34	50038.65	232.78
## 816	80.96	39	67866.95	225.00

## 817	36.91	48	54645.20	159.69
## 818	54.47	23	46780.09	141.52
## 819	81.98	34	67432.49	212.88
## 820	79.60	39	73392.28	194.23
## 821	57.51	38	47682.28	105.71
## 822	82.30	31	56735.83	232.21
## 823	73.21	30	51013.37	252.60
## 824	79.09	32	69481.85	209.72
## 825	68.47	28	67033.34	226.64
## 826	83.69	36	68717.00	192.57
## 827	83.48	31	59340.99	222.72
## 828	43.49	45	47968.32	124.67
## 829	66.69	35	48758.92	108.27
## 830	48.46	49	61230.03	132.38
## 831	42.51	30	54755.71	144.77
## 832	42.83	34	54324.73	132.38
## 833	41.46	42	52177.40	128.98
## 834	45.99	33	51163.14	124.61
## 835	68.72	27	66861.67	225.97
## 836	63.11	34	63107.88	254.94
## 837	49.21	46	49206.40	115.60
## 838	55.77	49	55942.04	117.33
## 839	44.13	40	33601.84	128.48
## 840	57.82	46	48867.36	107.56
## 841	72.46	40	56683.32	113.53
## 842	61.88	45	38260.89	108.18
## 843	78.24	23	54106.21	199.29
## 844	74.61	38	71055.22	231.28
## 845	89.18	37	46403.18	224.01
## 846	44.16	42	61690.93	133.42
## 847	55.74	37	26130.93	124.34
## 848	88.82	36	58638.75	169.10
## 849	70.39	32	47357.39	261.52
## 850	59.05	52	50086.17	118.45
## 851	78.58	33	51772.58	250.11
## 852	35.11	35	47638.30	158.03
## 853	60.39	45	38987.42	108.25
## 854	81.56	26	51363.16	213.70
## 855	75.03	34	35764.49	255.57
## 856	50.87	24	62939.50	190.41
## 857	82.80	30	58776.67	223.20
## 858	78.51	25	59106.12	205.71
## 859	37.65	51	50457.01	161.29
## 860	83.17	43	54251.78	244.40
## 861	91.37	45	51920.49	182.65
## 862	68.25	29	70324.80	220.08
## 863	81.32	25	52416.18	165.65
## 864	76.64	39	66217.31	241.50
## 865	74.06	50	60938.73	246.29
## 866	39.53	33	40243.82	142.21
## 867	86.58	32	60151.77	195.93
## 868	90.75	40	45945.88	216.50
## 869	67.71	25	63430.33	225.76
## 870	82.41	36	65882.81	222.08

## 871	45.82	27	64410.80	171.24
## 872	76.79	27	55677.12	235.94
## 873	70.05	33	75560.65	203.44
## 874	72.19	32	61067.58	250.32
## 875	77.35	34	72330.57	167.26
## 876	40.34	29	32549.95	173.75
## 877	67.39	44	51257.26	107.19
## 878	68.68	34	77220.42	187.03
## 879	81.75	43	52520.75	249.45
## 880	66.03	22	59422.47	217.37
## 881	47.74	33	22456.04	154.93
## 882	79.18	31	58443.99	236.96
## 883	86.81	29	50820.74	199.62
## 884	41.53	42	67575.12	158.81
## 885	70.92	39	66522.79	249.81
## 886	46.84	45	34903.67	123.22
## 887	44.40	53	43073.78	140.95
## 888	52.17	44	57594.70	115.37
## 889	81.45	31	66027.31	205.84
## 890	54.08	36	53012.94	111.02
## 891	76.65	31	61117.50	238.43
## 892	54.39	20	52563.22	171.90
## 893	37.74	40	65773.49	190.95
## 894	69.86	25	50506.44	241.36
## 895	85.37	36	66262.59	194.56
## 896	80.99	26	35521.88	207.53
## 897	78.84	32	62430.55	235.29
## 898	77.36	41	49597.08	115.79
## 899	55.46	37	42078.89	108.10
## 900	35.66	45	46197.59	151.72
## 901	50.78	51	49957.00	122.04
## 902	40.47	38	24078.93	203.90
## 903	45.62	43	53647.81	121.28
## 904	84.76	30	61039.13	178.69
## 905	80.64	26	46974.15	221.59
## 906	75.94	27	53042.51	236.96
## 907	37.01	50	48826.14	216.01
## 908	87.18	31	58287.86	193.60
## 909	56.91	50	21773.22	146.44
## 910	75.24	24	52252.91	226.49
## 911	42.84	52	27073.27	182.20
## 912	67.56	47	50628.31	109.98
## 913	34.96	42	36913.51	160.49
## 914	87.46	37	61009.10	211.56
## 915	41.86	39	53041.77	128.62
## 916	34.04	34	40182.84	174.88
## 917	54.96	42	59419.78	113.75
## 918	87.14	31	58235.21	199.40
## 919	78.79	32	68324.48	215.29
## 920	65.56	25	69646.35	181.25
## 921	81.05	34	54045.39	245.50
## 922	55.71	37	57806.03	112.52
## 923	45.48	49	53336.76	129.16
## 924	47.00	56	50491.45	149.53

## 925	59.64	51	71455.62	153.12
## 926	35.98	45	43241.88	150.79
## 927	72.55	22	58953.01	202.34
## 928	91.15	38	36834.04	184.98
## 929	80.53	29	66345.10	187.64
## 930	82.49	45	38645.40	130.84
## 931	80.94	36	60803.00	239.94
## 932	61.76	34	33553.90	114.69
## 933	63.30	38	63071.34	116.19
## 934	36.73	34	46737.34	149.79
## 935	78.41	33	55368.67	248.23
## 936	83.98	36	68305.91	194.62
## 937	63.18	45	39211.49	107.92
## 938	50.60	48	65956.71	135.67
## 939	32.60	38	40159.20	190.05
## 940	60.83	19	40478.83	185.46
## 941	44.72	46	40468.53	123.86
## 942	78.76	51	66980.27	162.05
## 943	79.51	39	34942.26	125.11
## 944	39.30	32	48335.20	145.73
## 945	64.79	30	42251.59	116.07
## 946	89.80	36	57330.43	198.24
## 947	72.82	34	75769.82	191.82
## 948	38.65	31	51812.71	154.77
## 949	59.01	30	75265.96	178.75
## 950	78.96	50	69868.48	193.15
## 951	63.99	43	72802.42	138.46
## 952	41.35	27	39193.45	162.46
## 953	62.79	36	18368.57	231.87
## 954	45.53	29	56129.89	141.58
## 955	51.65	31	58996.56	249.99
## 956	54.55	44	41547.62	109.04
## 957	35.66	36	59240.24	172.57
## 958	69.95	28	56725.47	247.01
## 959	79.83	29	55764.43	234.23
## 960	85.35	37	64235.51	161.42
## 961	56.78	28	39939.39	124.32
## 962	78.67	26	63319.99	195.56
## 963	70.09	21	54725.87	211.17
## 964	60.75	42	69775.75	247.05
## 965	65.07	24	57545.56	233.85
## 966	35.25	50	47051.02	194.44
## 967	37.58	52	51600.47	176.70
## 968	68.01	25	68357.96	188.32
## 969	45.08	38	35349.26	125.27
## 970	63.04	27	69784.85	159.05
## 971	40.18	29	50760.23	151.96
## 972	45.17	48	34418.09	132.07
## 973	50.48	50	20592.99	162.43
## 974	80.87	28	63528.80	203.30
## 975	41.88	40	44217.68	126.11
## 976	39.87	48	47929.83	139.34
## 977	61.84	45	46024.29	105.63
## 978	54.97	31	51900.03	116.38

## 979	71.40	30	72188.90	166.31
## 980	70.29	31	56974.51	254.65
## 981	67.26	57	25682.65	168.41
## 982	76.58	46	41884.64	258.26
## 983	54.37	38	72196.29	140.77
## 984	82.79	32	54429.17	234.81
## 985	66.47	31	58037.66	256.39
## 986	72.88	44	64011.26	125.12
## 987	76.44	28	59967.19	232.68
## 988	63.37	43	43155.19	105.04
## 989	89.71	48	51501.38	204.40
## 990	70.96	31	55187.85	256.40
## 991	35.79	44	33813.08	165.62
## 992	38.96	38	36497.22	140.67
## 993	69.17	40	66193.81	123.62
## 994	64.20	27	66200.96	227.63
## 995	43.70	28	63126.96	173.01
## 996	72.97	30	71384.57	208.58
## 997	51.30	45	67782.17	134.42
## 998	51.63	51	42415.72	120.37
## 999	55.55	19	41920.79	187.95
## 1000	45.01	26	29875.80	178.35

##	Ad.Topic.Line
## 1	Cloned 5thgeneration orchestration
## 2	Monitored national standardization
## 3	Organic bottom-line service-desk
## 4	Triple-buffered reciprocal time-frame
## 5	Robust logistical utilization
## 6	Sharable client-driven software
## 7	Enhanced dedicated support
## 8	Reactive local challenge
## 9	Configurable coherent function
## 10	Mandatory homogeneous architecture
## 11	Centralized neutral neural-net
## 12	Team-oriented grid-enabled Local Area Network
## 13	Centralized content-based focus group
## 14	Synergistic fresh-thinking array
## 15	Grass-roots coherent extranet
## 16	Persistent demand-driven interface
## 17	Customizable multi-tasking website
## 18	Intuitive dynamic attitude
## 19	Grass-roots solution-oriented conglomeration
## 20	Advanced 24/7 productivity
## 21	Object-based reciprocal knowledgebase
## 22	Streamlined non-volatile analyzer
## 23	Mandatory disintermediate utilization
## 24	Future-proofed methodical protocol
## 25	Exclusive neutral parallelism
## 26	Public-key foreground groupware
## 27	Ameliorated client-driven forecast
## 28	Monitored systematic hierarchy
## 29	Open-architected impactful productivity
## 30	Business-focused value-added definition
## 31	Programmable asymmetric data-warehouse

32 Digitized static capability
 ## 33 Digitized global capability
 ## 34 Multi-layered 4thgeneration knowledge user
 ## 35 Synchronized dedicated service-desk
 ## 36 Synchronized systemic hierarchy
 ## 37 Profound stable product
 ## 38 Reactive demand-driven capacity
 ## 39 Persevering needs-based open architecture
 ## 40 Intuitive exuding service-desk
 ## 41 Innovative user-facing extranet
 ## 42 Front-line intermediate database
 ## 43 Persevering exuding system engine
 ## 44 Balanced dynamic application
 ## 45 Reduced global support
 ## 46 Organic leadingedge secured line
 ## 47 Business-focused encompassing neural-net
 ## 48 Triple-buffered demand-driven alliance
 ## 49 Visionary maximized process improvement
 ## 50 Centralized 24/7 installation
 ## 51 Organized static focus group
 ## 52 Visionary reciprocal circuit
 ## 53 Pre-emptive value-added workforce
 ## 54 Sharable analyzing alliance
 ## 55 Team-oriented encompassing portal
 ## 56 Sharable bottom-line solution
 ## 57 Cross-group regional website
 ## 58 Organized global model
 ## 59 Upgradable asynchronous circuit
 ## 60 Phased transitional instruction set
 ## 61 Customer-focused empowering ability
 ## 62 Front-line heuristic data-warehouse
 ## 63 Stand-alone national attitude
 ## 64 Focused upward-trending core
 ## 65 Streamlined cohesive conglomeration
 ## 66 Upgradable optimizing toolset
 ## 67 Synchronized user-facing core
 ## 68 Organized client-driven alliance
 ## 69 Ergonomic multi-state structure
 ## 70 Synergized multimedia emulation
 ## 71 Customer-focused optimizing moderator
 ## 72 Advanced full-range migration
 ## 73 De-engineered object-oriented protocol
 ## 74 Polarized clear-thinking budgetary management
 ## 75 Customizable 6thgeneration knowledge user
 ## 76 Seamless object-oriented structure
 ## 77 Seamless real-time array
 ## 78 Grass-roots impactful system engine
 ## 79 Devolved tangible approach
 ## 80 Customizable executive software
 ## 81 Progressive analyzing attitude
 ## 82 Innovative executive encoding
 ## 83 Down-sized uniform info-mediaries
 ## 84 Streamlined next generation implementation
 ## 85 Distributed tertiary system engine

86 Triple-buffered scalable groupware
 ## 87 Total 5thgeneration encoding
 ## 88 Integrated human-resource encoding
 ## 89 Phased dynamic customer loyalty
 ## 90 Open-source coherent policy
 ## 91 Down-sized modular intranet
 ## 92 Pre-emptive content-based focus group
 ## 93 Versatile 4thgeneration system engine
 ## 94 Ergonomic full-range time-frame
 ## 95 Automated directional function
 ## 96 Progressive empowering alliance
 ## 97 Versatile homogeneous capacity
 ## 98 Function-based optimizing protocol
 ## 99 Up-sized secondary software
 ## 100 Seamless holistic time-frame
 ## 101 Persevering reciprocal firmware
 ## 102 Centralized logistical secured line
 ## 103 Innovative background conglomeration
 ## 104 Switchable 3rdgeneration hub
 ## 105 Polarized 6thgeneration info-mediaries
 ## 106 Balanced heuristic approach
 ## 107 Focused 24hour implementation
 ## 108 De-engineered mobile infrastructure
 ## 109 Customer-focused upward-trending contingency
 ## 110 Operative system-worthy protocol
 ## 111 User-friendly upward-trending intranet
 ## 112 Future-proofed holistic superstructure
 ## 113 Extended systemic policy
 ## 114 Horizontal hybrid challenge
 ## 115 Virtual composite model
 ## 116 Switchable mobile framework
 ## 117 Focused intangible moderator
 ## 118 Balanced actuating moderator
 ## 119 Customer-focused transitional strategy
 ## 120 Advanced web-enabled standardization
 ## 121 Pre-emptive executive knowledgebase
 ## 122 Self-enabling holistic process improvement
 ## 123 Horizontal client-driven hierarchy
 ## 124 Polarized dynamic throughput
 ## 125 Devolved zero administration intranet
 ## 126 User-friendly asymmetric info-mediaries
 ## 127 Cross-platform regional task-force
 ## 128 Polarized bandwidth-monitored moratorium
 ## 129 Centralized systematic knowledgebase
 ## 130 Future-proofed grid-enabled implementation
 ## 131 Down-sized well-modulated archive
 ## 132 Realigned zero tolerance emulation
 ## 133 Versatile transitional monitoring
 ## 134 Profound zero administration instruction set
 ## 135 User-centric intangible task-force
 ## 136 Enhanced system-worthy application
 ## 137 Multi-layered user-facing paradigm
 ## 138 Customer-focused 24/7 concept
 ## 139 Function-based transitional complexity

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## 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

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## 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

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

```

356 Synergized coherent interface
 ## 357 Horizontal high-level concept
 ## 358 Reduced multimedia project
 ## 359 Object-based modular functionalities
 ## 360 Polarized multimedia system engine
 ## 361 Versatile reciprocal structure
 ## 362 Upgradable multi-tasking initiative
 ## 363 Configurable tertiary budgetary management
 ## 364 Adaptive asynchronous attitude
 ## 365 Face-to-face mission-critical definition
 ## 366 Inverse zero tolerance customer loyalty
 ## 367 Centralized 24hour synergy
 ## 368 Face-to-face analyzing encryption
 ## 369 Self-enabling even-keeled methodology
 ## 370 Function-based optimizing extranet
 ## 371 Organic asynchronous hierarchy
 ## 372 Automated client-driven orchestration
 ## 373 Public-key zero-defect analyzer
 ## 374 Proactive client-server productivity
 ## 375 Cloned incremental matrices
 ## 376 Open-architected system-worthy task-force
 ## 377 Devolved regional moderator
 ## 378 Balanced value-added database
 ## 379 Seamless composite budgetary management
 ## 380 Total cohesive moratorium
 ## 381 Integrated motivating neural-net
 ## 382 Exclusive zero tolerance frame
 ## 383 Operative scalable emulation
 ## 384 Enhanced asymmetric installation
 ## 385 Face-to-face reciprocal methodology
 ## 386 Robust responsive collaboration
 ## 387 Polarized logistical hub
 ## 388 Intuitive zero-defect framework
 ## 389 Reactive composite project
 ## 390 Upgradable even-keeled hardware
 ## 391 Future-proofed responsive matrix
 ## 392 Programmable empowering middleware
 ## 393 Robust dedicated system engine
 ## 394 Public-key mission-critical core
 ## 395 Operative actuating installation
 ## 396 Self-enabling asynchronous knowledge user
 ## 397 Configurable 24/7 hub
 ## 398 Versatile responsive knowledge user
 ## 399 Managed impactful definition
 ## 400 Grass-roots 4thgeneration forecast
 ## 401 Focused 3rdgeneration pricing structure
 ## 402 Mandatory dedicated data-warehouse
 ## 403 Proactive radical support
 ## 404 Re-engineered responsive definition
 ## 405 Profound optimizing utilization
 ## 406 Cloned explicit middleware
 ## 407 Multi-channeled mission-critical success
 ## 408 Versatile content-based protocol
 ## 409 Seamless cohesive conglomeration

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## 410             De-engineered actuating hierarchy
## 411             Balanced motivating help-desk
## 412             Inverse high-level capability
## 413             Cross-platform client-server hierarchy
## 414             Sharable optimal capacity
## 415             Face-to-face multimedia success
## 416             Enterprise-wide incremental Internet solution
## 417             Advanced systemic productivity
## 418             Customizable mission-critical adapter
## 419             Horizontal heuristic synergy
## 420             Multi-tiered multi-state moderator
## 421             Re-contextualized reciprocal interface
## 422             Organized demand-driven knowledgebase
## 423             Total local synergy
## 424             User-friendly bandwidth-monitored attitude
## 425             Re-engineered context-sensitive knowledge user
## 426             Total user-facing hierarchy
## 427             Balanced contextually-based pricing structure
## 428             Inverse bi-directional knowledge user
## 429             Networked even-keeled workforce
## 430             Right-sized transitional parallelism
## 431             Customer-focused system-worthy superstructure
## 432             Balanced 4thgeneration success
## 433             Cross-group value-added success
## 434             Visionary client-driven installation
## 435             Switchable well-modulated infrastructure
## 436             Upgradable asymmetric emulation
## 437             Configurable tertiary capability
## 438             Monitored dynamic instruction set
## 439             Robust web-enabled attitude
## 440             Customer-focused full-range neural-net
## 441             Universal transitional Graphical User Interface
## 442             User-centric intangible contingency
## 443             Configurable disintermediate throughput
## 444             Automated web-enabled migration
## 445             Triple-buffered 3rdgeneration migration
## 446             Universal contextually-based system engine
## 447             Optional secondary access
## 448             Quality-focused scalable utilization
## 449             Team-oriented dynamic forecast
## 450             Horizontal heuristic support
## 451             Customer-focused zero-defect process improvement
## 452             Focused systemic benchmark
## 453             Seamless impactful info-mediaries
## 454             Advanced heuristic firmware
## 455             Fully-configurable client-driven customer loyalty
## 456             Cross-group neutral synergy
## 457             Organized 24/7 middleware
## 458             Networked stable open architecture
## 459             Customizable systematic service-desk
## 460             Function-based directional productivity
## 461             Networked stable array
## 462             Phased full-range hardware
## 463             Organized empowering policy

```

464 Object-based system-worthy superstructure
 ## 465 Profound explicit hardware
 ## 466 Self-enabling multimedia system engine
 ## 467 Polarized analyzing intranet
 ## 468 Vision-oriented attitude-oriented Internet solution
 ## 469 Digitized disintermediate ability
 ## 470 Intuitive explicit firmware
 ## 471 Public-key real-time definition
 ## 472 Monitored content-based implementation
 ## 473 Quality-focused zero-defect budgetary management
 ## 474 Intuitive fresh-thinking moderator
 ## 475 Reverse-engineered 24hour hardware
 ## 476 Synchronized zero tolerance product
 ## 477 Reactive interactive protocol
 ## 478 Focused fresh-thinking Graphic Interface
 ## 479 Ameliorated exuding solution
 ## 480 Integrated maximized service-desk
 ## 481 Self-enabling tertiary challenge
 ## 482 Decentralized foreground infrastructure
 ## 483 Quality-focused hybrid frame
 ## 484 Realigned reciprocal framework
 ## 485 Distributed maximized ability
 ## 486 Polarized bifurcated array
 ## 487 Progressive asynchronous adapter
 ## 488 Business-focused high-level hardware
 ## 489 Fully-configurable holistic throughput
 ## 490 Ameliorated contextually-based collaboration
 ## 491 Progressive uniform budgetary management
 ## 492 Synergistic stable infrastructure
 ## 493 Reverse-engineered content-based intranet
 ## 494 Expanded zero administration attitude
 ## 495 Team-oriented 6thgeneration extranet
 ## 496 Managed disintermediate capability
 ## 497 Front-line dynamic model
 ## 498 Innovative regional structure
 ## 499 Function-based incremental standardization
 ## 500 Universal asymmetric workforce
 ## 501 Business-focused client-driven forecast
 ## 502 Realigned global initiative
 ## 503 Business-focused maximized complexity
 ## 504 Open-source global strategy
 ## 505 Stand-alone motivating moratorium
 ## 506 Grass-roots multimedia policy
 ## 507 Upgradable local migration
 ## 508 Profound bottom-line standardization
 ## 509 Managed client-server access
 ## 510 Cross-platform directional intranet
 ## 511 Horizontal modular success
 ## 512 Vision-oriented multi-tasking success
 ## 513 Optional multi-state hardware
 ## 514 Upgradable heuristic system engine
 ## 515 Future-proofed modular utilization
 ## 516 Synergistic dynamic orchestration
 ## 517 Multi-layered stable encoding

518 Team-oriented zero-defect initiative
 ## 519 Polarized 5thgeneration matrix
 ## 520 Fully-configurable context-sensitive Graphic Interface
 ## 521 Progressive intermediate throughput
 ## 522 Customizable holistic archive
 ## 523 Compatible intermediate concept
 ## 524 Assimilated next generation firmware
 ## 525 Total zero administration software
 ## 526 Re-engineered impactful software
 ## 527 Business-focused background synergy
 ## 528 Future-proofed coherent budgetary management
 ## 529 Ergonomic methodical encoding
 ## 530 Compatible dedicated productivity
 ## 531 Up-sized real-time methodology
 ## 532 Up-sized next generation architecture
 ## 533 Managed 6thgeneration hierarchy
 ## 534 Organic motivating model
 ## 535 Pre-emptive transitional protocol
 ## 536 Managed attitude-oriented Internet solution
 ## 537 Public-key asynchronous matrix
 ## 538 Grass-roots systematic hardware
 ## 539 User-centric composite contingency
 ## 540 Up-sized bi-directional infrastructure
 ## 541 Assimilated actuating policy
 ## 542 Organized upward-trending contingency
 ## 543 Ergonomic neutral portal
 ## 544 Adaptive demand-driven knowledgebase
 ## 545 Reverse-engineered maximized focus group
 ## 546 Switchable analyzing encryption
 ## 547 Public-key intangible Graphical User Interface
 ## 548 Advanced local task-force
 ## 549 Profound well-modulated array
 ## 550 Multi-channeled asymmetric installation
 ## 551 Multi-layered fresh-thinking neural-net
 ## 552 Distributed cohesive migration
 ## 553 Programmable uniform website
 ## 554 Object-based neutral policy
 ## 555 Horizontal global leverage
 ## 556 Synchronized grid-enabled moratorium
 ## 557 Adaptive uniform capability
 ## 558 Total grid-enabled application
 ## 559 Optional regional throughput
 ## 560 Integrated client-server definition
 ## 561 Fundamental methodical support
 ## 562 Synergistic reciprocal attitude
 ## 563 Managed 5thgeneration time-frame
 ## 564 Vision-oriented uniform knowledgebase
 ## 565 Multi-tiered stable leverage
 ## 566 Down-sized explicit budgetary management
 ## 567 Cross-group human-resource time-frame
 ## 568 Business-focused holistic benchmark
 ## 569 Virtual 5thgeneration neural-net
 ## 570 Distributed scalable orchestration
 ## 571 Realigned intangible benchmark

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## 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

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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

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## 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

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## 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

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## 950	Stand-alone well-modulated product
## 951	Ameliorated bandwidth-monitored contingency
## 952	Streamlined homogeneous analyzer
## 953	Total coherent archive
## 954	Front-line neutral alliance
## 955	Virtual context-sensitive support
## 956	Re-engineered optimal policy
## 957	Implemented uniform synergy
## 958	Horizontal even-keeled challenge
## 959	Innovative regional groupware
## 960	Exclusive multi-state Internet solution
## 961	Mandatory empowering focus group
## 962	Proactive 5thgeneration frame
## 963	Automated full-range Internet solution
## 964	Fully-configurable systemic productivity
## 965	Multi-lateral multi-state encryption
## 966	Intuitive global website
## 967	Exclusive disintermediate Internet solution
## 968	Ameliorated actuating workforce
## 969	Synergized clear-thinking protocol
## 970	Triple-buffered multi-state complexity
## 971	Enhanced intangible portal
## 972	Down-sized background groupware
## 973	Switchable real-time product
## 974	Ameliorated local workforce
## 975	Streamlined exuding adapter
## 976	Business-focused user-facing benchmark
## 977	Reactive bi-directional standardization
## 978	Virtual bifurcated portal
## 979	Integrated 3rdgeneration monitoring
## 980	Balanced responsive open system
## 981	Focused incremental Graphic Interface
## 982	Secured 24hour policy
## 983	Up-sized asymmetric firmware
## 984	Distributed fault-tolerant service-desk
## 985	Vision-oriented human-resource synergy
## 986	Customer-focused explicit challenge
## 987	Synchronized human-resource moderator
## 988	Open-architected full-range projection
## 989	Versatile local forecast
## 990	Ameliorated user-facing help-desk
## 991	Enterprise-wide tangible model
## 992	Versatile mission-critical application
## 993	Extended leadingedge solution
## 994	Phased zero tolerance extranet
## 995	Front-line bifurcated ability
## 996	Fundamental modular algorithm
## 997	Grass-roots cohesive monitoring
## 998	Expanded intangible solution
## 999	Proactive bandwidth-monitored policy
## 1000	Virtual 5thgeneration emulation
##	City Male
## 1	Wrightburgh 0
## 2	West Jodi 1

## 3	Davidton	0
## 4	West Terrifurt	1
## 5	South Manuel	0
## 6	Jamieberg	1
## 7	Brandonstad	0
## 8	Port Jefferybury	1
## 9	West Colin	1
## 10	Ramirezton	1
## 11	West Brandonton	0
## 12	East Theresashire	1
## 13	West Katiefurt	1
## 14	North Tara	0
## 15	West William	0
## 16	New Travistown	1
## 17	West Dylanberg	0
## 18	Pruittmouth	0
## 19	Jessicastad	1
## 20	Millertown	1
## 21	Port Jacqueline	1
## 22	Lake Nicole	1
## 23	South John	0
## 24	Pamelamouth	1
## 25	Harperborough	0
## 26	Port Danielleberg	1
## 27	West Jeremyside	1
## 28	South Cathyfurt	0
## 29	Palmerside	0
## 30	West Guybury	0
## 31	Phelpschester	1
## 32	Lake Melindamouth	1
## 33	North Richardburgh	1
## 34	Port Cassie	0
## 35	New Thomas	1
## 36	Johnstad	0
## 37	West Aprilport	1
## 38	Kellytown	0
## 39	Charlesport	1
## 40	Millerchester	0
## 41	Mackenziemouth	0
## 42	Zacharystad	0
## 43	North Joshua	1
## 44	Bowenview	0
## 45	Jamesberg	0
## 46	Lake Cassandraport	1
## 47	New Sharon	1
## 48	Johnport	0
## 49	Hamiltonfort	1
## 50	West Christopher	0
## 51	Hollandberg	1
## 52	Odomville	0
## 53	East Samanthashire	1
## 54	South Lauraton	1
## 55	Amandahaven	0
## 56	Thomasview	0

## 57	Garciaside	0
## 58	Port Sarahshire	0
## 59	Port Gregory	0
## 60	Brendachester	0
## 61	Lake Amy	0
## 62	Lake Annashire	1
## 63	Smithburgh	0
## 64	North Leonmouth	1
## 65	Robertfurt	0
## 66	Jasminefort	1
## 67	Jensenborough	0
## 68	Bradleyburgh	0
## 69	New Sheila	1
## 70	North Regina	0
## 71	Davidmouth	0
## 72	New Michaeltown	0
## 73	East Tammie	1
## 74	Wilcoxport	1
## 75	East Michaelmouth	1
## 76	East Tiffanyport	0
## 77	Ramirezhaven	1
## 78	Cranemouth	1
## 79	Lake Edward	1
## 80	Lake Conniefurt	0
## 81	East Shawncchester	1
## 82	West Joseph	1
## 83	Lake Christopherfurt	0
## 84	East Tylershire	0
## 85	Sharpberg	0
## 86	Lake Dustin	0
## 87	North Kristine	0
## 88	Grahamberg	1
## 89	New Tina	0
## 90	Nelsonfurt	1
## 91	Christopherport	0
## 92	Port Sarahhaven	0
## 93	Bradleyborough	1
## 94	Whiteport	1
## 95	New Theresa	1
## 96	Wongland	0
## 97	Williammouth	1
## 98	Williamsborough	0
## 99	North Michael	0
## 100	Benjaminchester	1
## 101	Hernandezville	0
## 102	Youngburgh	1
## 103	Wallacechester	0
## 104	Sanchezmouth	1
## 105	Bradshawborough	0
## 106	Amyhaven	1
## 107	Marcushaven	1
## 108	Erinton	0
## 109	Hughesport	0
## 110	Johnstad	0

## 111	New Lucasburgh	0
## 112	Michelleside	1
## 113	Andersonton	0
## 114	New Rachel	1
## 115	Port Susan	1
## 116	West Angelabury	1
## 117	Port Christopherborough	0
## 118	Phillipsbury	1
## 119	Millerside	0
## 120	Lake Jessica	0
## 121	Lopezmouth	1
## 122	Johnsport	0
## 123	South Ronald	0
## 124	South Daniel	0
## 125	Suzannetown	0
## 126	Lisaberg	0
## 127	Brianfurt	0
## 128	Stewartbury	0
## 129	Benjaminchester	0
## 130	North Wesleychester	0
## 131	East Michelleberg	0
## 132	Port Eric	0
## 133	Timothyfurt	0
## 134	Port Jeffrey	0
## 135	Guzmanland	0
## 136	East Michele	1
## 137	East John	0
## 138	Lesliebury	1
## 139	Patriciahaven	1
## 140	Ashleychester	1
## 141	Lake Josetown	0
## 142	Debraburgh	1
## 143	New Debbiestad	1
## 144	West Shaun	1
## 145	Kimberlyhaven	0
## 146	Port Lawrence	1
## 147	West Ricardo	1
## 148	Lake Jose	1
## 149	Heatherberg	0
## 150	South George	0
## 151	Tinachester	1
## 152	Port Jodi	0
## 153	Jonathantown	1
## 154	Sylviaview	0
## 155	East Timothyport	1
## 156	West Roytown	1
## 157	Codyburgh	0
## 158	Port Erikhaven	1
## 159	Port Chasemouth	1
## 160	Ramirezside	0
## 161	East Michaeltown	1
## 162	West Courtney	1
## 163	West Michaelhaven	0
## 164	Walshhaven	0

## 165	East Rachelview	0
## 166	Curtisport	0
## 167	Frankbury	0
## 168	Timothytown	1
## 169	Samanthaland	1
## 170	South Jennifer	0
## 171	Kyleborough	1
## 172	North Randy	1
## 173	South Daniellefort	0
## 174	Dianashire	0
## 175	East Eric	0
## 176	Hammondport	0
## 177	Jacobstad	0
## 178	Hernandezfort	0
## 179	Joneston	1
## 180	New Jeffreychester	0
## 181	East Stephen	0
## 182	Turnerchester	0
## 183	Youngfort	0
## 184	Ingramberg	1
## 185	South Denisefurt	0
## 186	Port Melissaberg	0
## 187	Bernardton	1
## 188	Port Mathew	1
## 189	Aliciatown	0
## 190	Josephstad	0
## 191	West Ericfurt	0
## 192	New Brendafurt	0
## 193	Port Julie	1
## 194	South Tiffanyton	1
## 195	North Elizabeth	1
## 196	Kentmouth	0
## 197	West Casey	1
## 198	East Henry	1
## 199	Hollyfurt	1
## 200	North Anna	0
## 201	Port Destiny	0
## 202	Ianmouth	1
## 203	North Johntown	1
## 204	Hannahside	1
## 205	Wilsonburgh	0
## 206	North Russellborough	0
## 207	Murphymouth	0
## 208	Carterburgh	1
## 209	Penatown	0
## 210	Joechester	1
## 211	East Paul	1
## 212	Hartmanchester	0
## 213	Mcdonaldfort	1
## 214	North Mercedes	1
## 215	Taylorberg	0
## 216	Hansenmouth	0
## 217	Bradyfurt	1
## 218	West Jessicahaven	0

## 219	Davilachester	0
## 220	North Ricardotown	0
## 221	Melissafurt	0
## 222	East Brianberg	0
## 223	Millerbury	0
## 224	Garciaview	0
## 225	Townsendfurt	0
## 226	Williamstad	0
## 227	West Connor	0
## 228	West Justin	0
## 229	Robertbury	0
## 230	New Tinamouth	0
## 231	Turnerview	1
## 232	Reneechester	1
## 233	West Tinashire	0
## 234	Jamesfurt	0
## 235	New Nancy	1
## 236	Lisamouth	1
## 237	Harveyport	0
## 238	Ramosstad	0
## 239	North Kevinside	0
## 240	Haleview	1
## 241	Christinetown	0
## 242	New Michael	1
## 243	Jonesland	1
## 244	North Shannon	0
## 245	New Sonialand	1
## 246	Port Jason	1
## 247	East Barbara	1
## 248	Port Erinberg	1
## 249	Petersonfurt	0
## 250	New Lindaberg	0
## 251	West Russell	0
## 252	South Adam	1
## 253	North Tracyport	1
## 254	Brownport	1
## 255	Port Crystal	0
## 256	Masonhaven	0
## 257	Derrickhaven	0
## 258	Olsonstad	1
## 259	New Brandy	0
## 260	South Jasminebury	0
## 261	East Timothy	0
## 262	Charlottefort	0
## 263	Lake Beckyburgh	1
## 264	West Lindseybury	0
## 265	West Alyssa	0
## 266	Lake Craigview	1
## 267	Lake David	0
## 268	Bruceburgh	0
## 269	South Lauratown	1
## 270	Port Robin	0
## 271	Jacksonburgh	1
## 272	Erinmouth	1

## 273	Port Aliciabury	0
## 274	Port Whitneyhaven	0
## 275	Jeffreyshire	0
## 276	Tinaton	0
## 277	North Loriburgh	0
## 278	Wendyton	1
## 279	Lake Jacqueline	1
## 280	North Christopher	1
## 281	Alexanderfurt	0
## 282	West Pamela	0
## 283	West Amanda	0
## 284	South Tomside	0
## 285	Bethburgh	1
## 286	Jamiefort	1
## 287	Garciamouth	0
## 288	West Brenda	0
## 289	South Kyle	0
## 290	Combsstad	0
## 291	Lake Allenville	0
## 292	Greenechester	0
## 293	Jordantown	1
## 294	Gravesport	0
## 295	South Troy	1
## 296	Lake Patrick	1
## 297	Millerland	0
## 298	Port Jessicamouth	0
## 299	Paulport	0
## 300	Clineshire	1
## 301	Cynthiaside	0
## 302	Port Juan	0
## 303	Michellefort	0
## 304	Port Angelamouth	1
## 305	Jessicahaven	0
## 306	North Daniel	1
## 307	New Juan	0
## 308	Amyfurt	0
## 309	Harrishaven	0
## 310	Roberttown	0
## 311	Jeremyshire	1
## 312	Birdshire	0
## 313	New Amanda	0
## 314	Curtisview	1
## 315	Jacksonmouth	0
## 316	North April	0
## 317	Hayesmouth	0
## 318	South Corey	1
## 319	Juliaport	0
## 320	Port Paultown	0
## 321	East Vincentstad	0
## 322	Kimberlytown	0
## 323	New Steve	1
## 324	New Johnberg	0
## 325	Shawstad	0
## 326	New Rebecca	0

## 327	Jeffreyburgh	1
## 328	Faithview	0
## 329	Richardsontown	0
## 330	Port Brookeland	0
## 331	East Christopherbury	0
## 332	Port Christinemouth	0
## 333	South Meghan	1
## 334	Hessstad	1
## 335	Rhondaborough	1
## 336	Lewismouth	1
## 337	New Paul	0
## 338	Lake Angela	1
## 339	East Graceland	1
## 340	Hartport	0
## 341	East Yvonnechester	0
## 342	Burgessside	0
## 343	Hurleyborough	0
## 344	Garychester	1
## 345	East Kevinbury	1
## 346	Contrerasshire	1
## 347	Erikville	0
## 348	Robertsonburgh	1
## 349	Karenton	0
## 350	Port Kathleenfort	0
## 351	Lake Adrian	0
## 352	New Sheila	1
## 353	Mollyport	0
## 354	Sandraland	1
## 355	Charlenetown	0
## 356	Luischester	1
## 357	South Johnnymouth	0
## 358	Hannaport	0
## 359	East Anthony	0
## 360	West Daleborough	0
## 361	Morrismouth	1
## 362	North Andrewstad	1
## 363	Wrightburgh	1
## 364	West Tanya	1
## 365	Novaktown	1
## 366	Timothymouth	1
## 367	Robertmouth	1
## 368	Stephenborough	0
## 369	Lake Kurtmouth	0
## 370	Lauraburgh	1
## 371	Rogerburgh	0
## 372	Davidside	1
## 373	West Thomas	0
## 374	Andersonchester	0
## 375	North Ronaldshire	1
## 376	Greghaven	1
## 377	Jordanmouth	1
## 378	Meyersstad	0
## 379	Michelleside	0
## 380	South Robert	1

## 381	New Tyler	0
## 382	Jordanshire	1
## 383	Reyesland	0
## 384	New Traceystad	1
## 385	Port Brian	0
## 386	Lake Courtney	0
## 387	Samuelborough	1
## 388	Christinehaven	1
## 389	Thomasstad	1
## 390	Kristintown	0
## 391	New Wanda	1
## 392	Mariebury	0
## 393	Christopherville	1
## 394	New Jasmine	0
## 395	Lopezberg	1
## 396	Jenniferstad	1
## 397	West Eduardotown	1
## 398	Davisfurt	0
## 399	Bakerhaven	1
## 400	Paulshire	1
## 401	West Jane	1
## 402	Lake Brian	0
## 403	Alvaradoport	0
## 404	Lake Kevin	0
## 405	Richardsonland	1
## 406	East Sheriville	0
## 407	Port Michealburgh	1
## 408	Monicaview	0
## 409	Katieport	0
## 410	East Brittanyville	0
## 411	West Travismouth	0
## 412	Leonchester	0
## 413	Ramirezland	1
## 414	Brownton	0
## 415	New Jessicaport	1
## 416	New Denisebury	1
## 417	Keithtown	0
## 418	Port Melissastad	1
## 419	Janiceview	1
## 420	Mataberg	1
## 421	West Melaniefurt	1
## 422	Millerfort	1
## 423	Alexanderview	1
## 424	South Jade	0
## 425	Lake Susan	1
## 426	South Vincentchester	1
## 427	Williamsmouth	1
## 428	Taylorport	0
## 429	WilliamSPORT	0
## 430	Emilyfurt	1
## 431	East John	1
## 432	East Deborahhaven	1
## 433	Port Katelynview	0
## 434	Paulhaven	1

## 435	Elizabethmouth	1
## 436	Lake Jesus	0
## 437	North Tylerland	1
## 438	Munozberg	0
## 439	North Maryland	1
## 440	West Barbara	0
## 441	Andrewborough	0
## 442	New Gabriel	0
## 443	Port Patrickton	1
## 444	West Julia	1
## 445	New Keithburgh	0
## 446	Richardsland	1
## 447	North Aaronchester	1
## 448	Lake Matthewland	0
## 449	Kevinberg	0
## 450	Morganfort	1
## 451	Lovemouth	0
## 452	Taylorhaven	0
## 453	Jamesville	0
## 454	East Toddfort	1
## 455	East Dana	1
## 456	West Lucas	0
## 457	Butlerfort	0
## 458	Lindaside	1
## 459	West Chloeborough	1
## 460	Jayville	1
## 461	East Lindsey	1
## 462	Masseyshire	0
## 463	Sarahton	1
## 464	Ryanhaven	1
## 465	Lake Deborahburgh	1
## 466	New Williammouth	1
## 467	Port Blake	0
## 468	West Richard	1
## 469	Brandymouth	0
## 470	Sandraville	1
## 471	Port Jessica	0
## 472	Lake Jasonchester	0
## 473	Pearsonfort	0
## 474	Sellerstown	0
## 475	Yuton	0
## 476	Smithtown	1
## 477	Joanntown	1
## 478	South Peter	1
## 479	Port Mitchell	1
## 480	Pottermouth	1
## 481	Lake Jonathanview	1
## 482	Alanview	1
## 483	Carterport	0
## 484	New Daniellefort	1
## 485	Welchshire	0
## 486	Russellville	1
## 487	West Lisa	1
## 488	Greentown	0

## 489	Timothyport	0
## 490	Teresahaven	1
## 491	Lake Stephenborough	0
## 492	Silvaton	0
## 493	West Michaelstad	1
## 494	Florestown	0
## 495	New Jay	1
## 496	North Lisacheater	0
## 497	Port Stacy	1
## 498	Jensenton	0
## 499	North Alexandra	0
## 500	Rivasland	0
## 501	Helenborough	0
## 502	Garnerberg	0
## 503	North Anaport	0
## 504	Pattymouth	0
## 505	South Alexisborough	0
## 506	East Jennifer	1
## 507	Hallfort	0
## 508	New Charleschester	0
## 509	East Breannafurt	0
## 510	East Susanland	1
## 511	Estesfurt	0
## 512	Shirleyfort	1
## 513	Douglasview	1
## 514	South Lisa	1
## 515	Kingshire	0
## 516	Rebeccamouth	1
## 517	Brownbury	1
## 518	South Aaron	0
## 519	North Andrew	1
## 520	South Walter	1
## 521	Catherinefort	0
## 522	East Donna	1
## 523	East Timothy	1
## 524	North Kimberly	0
## 525	South Stephanieport	1
## 526	North Isabellaville	0
## 527	North Aaronburgh	0
## 528	Port James	1
## 529	Danielview	0
## 530	Port Stacey	1
## 531	West Kevinfurt	1
## 532	Lake Jennifer	1
## 533	Reyesfurt	0
## 534	West Carmenfurt	1
## 535	North Stephanieberg	0
## 536	East Valerie	1
## 537	Sherrishire	0
## 538	Port Daniel	0
## 539	Brownview	0
## 540	Greerton	1
## 541	Hatfieldshire	1
## 542	Brianabury	1

## 543	New Maria	0
## 544	Colebury	1
## 545	Calebberg	0
## 546	Lake Ian	0
## 547	Gomezport	0
## 548	Shaneland	0
## 549	East Aaron	0
## 550	Dustinborough	1
## 551	East Michaeland	0
## 552	East Connie	1
## 553	West Shannon	0
## 554	North Lauraland	1
## 555	Port Christopher	1
## 556	South Patrickfort	0
## 557	East Georgeside	1
## 558	Charlesbury	0
## 559	Millertown	1
## 560	South Renee	1
## 561	South Jackieberg	0
## 562	Loriville	1
## 563	Amandaland	1
## 564	West Robertside	0
## 565	North Sarashire	0
## 566	Port Maria	1
## 567	East Jessefort	0
## 568	Port Anthony	0
## 569	Edwardmouth	1
## 570	Dustinchester	1
## 571	Rochabury	0
## 572	Williamsport	1
## 573	Austinland	0
## 574	Lake Gerald	1
## 575	Wrightview	0
## 576	Perryburgh	0
## 577	Tracyhaven	1
## 578	South Jaimeview	0
## 579	Sandersland	1
## 580	South Meredithmouth	0
## 581	Richardsonshire	0
## 582	Kimberlymouth	0
## 583	Meghanchester	0
## 584	Tammyshire	0
## 585	Millerbury	1
## 586	Lake Elizabethside	1
## 587	Villanuevaton	0
## 588	Greerport	0
## 589	North Garyhaven	0
## 590	East Sharon	0
## 591	Johnstonmouth	0
## 592	East Heatherside	0
## 593	Lake Patrick	1
## 594	Richardsonmouth	0
## 595	Jenniferhaven	1
## 596	Boyerberg	1

## 597	Port Elijah	1
## 598	Knappburgh	1
## 599	New Dawnland	0
## 600	Chapmanmouth	0
## 601	Robertside	1
## 602	West Raymondmouth	1
## 603	Costaburgh	1
## 604	Kristineberg	1
## 605	Sandrashire	1
## 606	Andersonfurt	1
## 607	Tranland	0
## 608	Michaeland	1
## 609	East Rachaelfurt	1
## 610	Lake Johnbury	1
## 611	Elizabethstad	0
## 612	West Brad	1
## 613	Johnstonshire	1
## 614	Lake Timothy	1
## 615	Anthonyfurt	0
## 616	East Brettton	0
## 617	New Matthew	1
## 618	Christopherchester	0
## 619	Westshire	0
## 620	Alexisland	0
## 621	Kevinchester	1
## 622	New Patriciashire	1
## 623	Port Brenda	1
## 624	Port Brianfort	1
## 625	Portermouth	1
## 626	Hubbardmouth	1
## 627	South Brian	1
## 628	Hendrixmouth	1
## 629	Julietown	0
## 630	Lukeport	1
## 631	New Shane	1
## 632	Lake Jillville	1
## 633	Johnsonfort	0
## 634	Adamsbury	0
## 635	East Maureen	1
## 636	North Angelastad	0
## 637	Amandafort	0
## 638	Michaelmouth	1
## 639	Ronaldport	0
## 640	Port Davidland	0
## 641	Isaacborough	1
## 642	Lake Michael	0
## 643	West Michaelshire	0
## 644	Port Calvintown	0
## 645	Parkerhaven	0
## 646	Markhaven	1
## 647	Estradashire	0
## 648	Brianland	1
## 649	Cassandratown	0
## 650	West Dannyberg	0

## 651	East Debraborough	0
## 652	Frankchester	1
## 653	Lisafort	1
## 654	Colemanshire	0
## 655	Troyville	1
## 656	Hobbsbury	0
## 657	Harrisonmouth	1
## 658	Port Eugeneport	1
## 659	Karenmouth	0
## 660	Brendaburgh	1
## 661	New Christinatown	0
## 662	Jacksonstad	1
## 663	South Margaret	1
## 664	Port Georgebury	0
## 665	New Jessicaport	0
## 666	Sanderstown	1
## 667	Perezland	1
## 668	Luisfurt	0
## 669	New Karenberg	1
## 670	West Leahton	0
## 671	West Sharon	0
## 672	Klineside	1
## 673	Lake Cynthia	0
## 674	South Cynthiashire	1
## 675	Lake Jacob	0
## 676	West Samantha	1
## 677	Jeremybury	1
## 678	Blevinstown	1
## 679	Meyerchester	0
## 680	Reginamouth	0
## 681	Donaldshire	1
## 682	Salazarbury	1
## 683	Lake Joshuafurt	1
## 684	Wintersfort	0
## 685	Jamesmouth	0
## 686	Laurieside	1
## 687	Andrewmouth	1
## 688	West Angela	1
## 689	East Carlos	0
## 690	Kennedyfurt	1
## 691	Blairville	0
## 692	East Donnatown	1
## 693	Matthewtown	1
## 694	Brandonbury	0
## 695	New Jamestown	1
## 696	Mosleyburgh	0
## 697	Leahside	0
## 698	West Wendyland	0
## 699	Lawrenceborough	0
## 700	Kennethview	0
## 701	West Mariafort	1
## 702	Port Sherrystad	0
## 703	West Melissashire	1
## 704	Pamelamouth	0

## 705	Lesliefort	0
## 706	Shawnside	1
## 707	Josephmouth	0
## 708	Garciatown	0
## 709	Chaseshire	1
## 710	Destinyfurt	0
## 711	Mezaton	0
## 712	New Kayla	1
## 713	Carsonshire	1
## 714	Jacquelineshire	1
## 715	South Blakestad	1
## 716	North Mark	0
## 717	Kingchester	1
## 718	Evansfurt	0
## 719	South Adamhaven	1
## 720	Brittanyborough	0
## 721	Barbershire	0
## 722	East Ericport	1
## 723	Crawfordfurt	1
## 724	Turnerville	0
## 725	Kylieview	1
## 726	West Zacharyborough	0
## 727	Watsonfort	1
## 728	Dayton	1
## 729	Nicholasport	1
## 730	Whitneyfort	1
## 731	Coffeytown	1
## 732	North Johnside	1
## 733	Robinsonland	0
## 734	Lake David	1
## 735	West Ericaport	0
## 736	Haleberg	0
## 737	West Michaelport	1
## 738	Ericksonmouth	0
## 739	Yangside	1
## 740	Estradafurt	0
## 741	Frankport	1
## 742	Port Juan	0
## 743	Williamsside	1
## 744	Johnsonview	1
## 745	East Heidi	0
## 746	New Angelview	0
## 747	Lake Brandonview	0
## 748	Morganport	0
## 749	Browntown	0
## 750	Lake Hailey	0
## 751	Olsonside	1
## 752	Coxhaven	1
## 753	Meaganfort	0
## 754	North Monicaville	0
## 755	Mullenside	0
## 756	Princebury	1
## 757	Bradleyside	0
## 758	Elizabethbury	1

## 759	West Ryan	0
## 760	New Tammy	1
## 761	Sanchezland	0
## 762	Rogerland	0
## 763	Vanessaview	1
## 764	Jessicashire	1
## 765	Melissachester	1
## 766	Johnsontown	0
## 767	New Joshuaport	1
## 768	Hernandezside	1
## 769	New Williamville	1
## 770	Gilbertville	1
## 771	Newmanberg	0
## 772	West Alice	1
## 773	Cannonbury	0
## 774	Shelbyport	1
## 775	New Henry	0
## 776	Dustinmouth	1
## 777	South Lisa	0
## 778	Lisamouth	0
## 779	New Hollyberg	0
## 780	Port Brittanyville	0
## 781	East Ronald	1
## 782	South Davidmouth	1
## 783	Carterton	0
## 784	Rachelhaven	1
## 785	New Timothy	1
## 786	North Jessicaville	1
## 787	Joneston	1
## 788	Staceyfort	0
## 789	South Dianeshire	0
## 790	West Shannon	1
## 791	Micheletown	1
## 792	North Brittanyburgh	0
## 793	Port Jasmine	1
## 794	New Sabrina	1
## 795	Lake Charlottestad	0
## 796	West Rhondamouth	1
## 797	North Debra	1
## 798	Villanuevastad	0
## 799	North Jeremyport	1
## 800	Lake Susan	1
## 801	Lake John	1
## 802	Courtneyfort	1
## 803	Tammymouth	0
## 804	Lake Vanessa	0
## 805	Lake Amanda	1
## 806	Mariemouth	1
## 807	Port Douglasborough	0
## 808	Port Aprilville	0
## 809	Williamsport	1
## 810	Lake Faith	0
## 811	Wendyville	1
## 812	Angelhaven	1

## 813	New Sean	1
## 814	Lake Lisa	0
## 815	Valerieland	0
## 816	New Travis	1
## 817	North Samantha	0
## 818	Holderville	0
## 819	Patrickmouth	0
## 820	Lake Deannaborough	0
## 821	Jeffreymouth	0
## 822	Davieshaven	0
## 823	Lake Jessicaville	1
## 824	Hernandezchester	1
## 825	North Kennethside	0
## 826	Shelbyport	0
## 827	Williamport	1
## 828	Smithside	0
## 829	Vanessastad	0
## 830	Lisamouth	1
## 831	Lake Rhondaburgh	1
## 832	Cunninghamhaven	1
## 833	Robertstown	1
## 834	South Mark	1
## 835	New Taylorburgh	0
## 836	Port Karenfurt	1
## 837	Carterland	0
## 838	East Shawn	1
## 839	West Derekmouth	1
## 840	Brandiland	1
## 841	Cervantesshire	0
## 842	North Debrashire	0
## 843	Deannaville	0
## 844	East Christopher	1
## 845	Rickymouth	1
## 846	Port Dennis	1
## 847	Lake Michelle	1
## 848	East Johnport	0
## 849	Sabrinaview	1
## 850	Kristinfurt	1
## 851	Chapmanland	1
## 852	North Jonathan	1
## 853	Port Christina	1
## 854	Juanport	1
## 855	East Mike	0
## 856	North Angelatown	0
## 857	West Steven	1
## 858	Riggsstad	1
## 859	Davidview	1
## 860	Port Kevinborough	1
## 861	Lawsonshire	1
## 862	Wagnerchester	0
## 863	Daisymouth	0
## 864	North Daniel	1
## 865	Port Jacquelinestad	1
## 866	New Teresa	1

## 867	Henryfort	1
## 868	Lake Joseph	0
## 869	Daviesborough	1
## 870	North Brandon	0
## 871	Adamside	1
## 872	Wademouth	0
## 873	North Raymond	0
## 874	Randolphport	1
## 875	East Troyhaven	0
## 876	Clarkborough	0
## 877	Josephberg	0
## 878	Lake Jenniferton	1
## 879	Lake Jose	0
## 880	Ashleymouth	0
## 881	Henryland	1
## 882	Lake Danielle	0
## 883	Joshuaburgh	1
## 884	South Jeanneport	0
## 885	New Nathan	1
## 886	Jonesshire	0
## 887	Mariahview	1
## 888	New Julianberg	1
## 889	Randyshire	1
## 890	Philipberg	1
## 891	West Dennis	0
## 892	Richardshire	1
## 893	Lake James	0
## 894	Austinborough	0
## 895	Alexandrafort	1
## 896	Melissastad	1
## 897	Gonzalezburgh	1
## 898	Port Jennifer	0
## 899	Chrismouth	0
## 900	Port Beth	0
## 901	West David	0
## 902	Fraziershire	0
## 903	Robertfurt	0
## 904	South Pamela	0
## 905	North Laurenview	0
## 906	Campbellstad	1
## 907	Port Derekberg	0
## 908	West Andrew	0
## 909	West Randy	0
## 910	South Christopher	0
## 911	Lake Michellebury	1
## 912	Zacharyton	0
## 913	West James	1
## 914	Millerview	1
## 915	Hawkinsbury	1
## 916	Elizabethport	1
## 917	West Amanda	1
## 918	Wadestad	1
## 919	Mauriceshire	1
## 920	West Arielstad	1

## 921	Adamsstad	0
## 922	Lake James	1
## 923	Blairborough	1
## 924	New Marcusbury	0
## 925	Evansville	1
## 926	Huffmanchester	0
## 927	New Cynthia	0
## 928	Joshuamouth	0
## 929	West Benjamin	0
## 930	Williamsfort	0
## 931	North Tiffany	0
## 932	Edwardsport	0
## 933	Lake Evantown	0
## 934	South Henry	1
## 935	Harmonhaven	1
## 936	West Gregburgh	0
## 937	Hansenland	0
## 938	Port Michaelmouth	0
## 939	Tylerport	0
## 940	West Lacey	1
## 941	North Jenniferburgh	1
## 942	South Davidhaven	0
## 943	North Charlesbury	1
## 944	Jonathanland	0
## 945	North Virginia	0
## 946	West Tanner	0
## 947	Jonesmouth	1
## 948	Port Jason	1
## 949	West Annefort	1
## 950	East Jason	0
## 951	North Cassie	0
## 952	Hintonport	1
## 953	New James	1
## 954	North Destiny	0
## 955	Mclaughlinbury	0
## 956	West Gabriellamouth	0
## 957	Alvarezland	0
## 958	New Julie	0
## 959	North Frankstad	1
## 960	Claytonside	1
## 961	Melanieton	0
## 962	Lake Michaelport	0
## 963	East Benjaminville	0
## 964	Garrettborough	1
## 965	Port Raymondfort	0
## 966	Waltertown	0
## 967	Cameronberg	1
## 968	Kaylashire	1
## 969	Fosterside	0
## 970	Davidstad	0
## 971	Lake Tracy	0
## 972	Taylormouth	1
## 973	Dianaville	0
## 974	Collinsburgh	0

## 975	Port Rachel	1
## 976	South Rebecca	1
## 977	Port Joshuafort	1
## 978	Robinsontown	1
## 979	Beckton	0
## 980	New Frankshire	1
## 981	North Derekville	1
## 982	West Sydney	0
## 983	Lake Matthew	0
## 984	Lake Zacharyfurt	1
## 985	Lindsaymouth	1
## 986	Sarahland	0
## 987	Port Julie	1
## 988	Michaelshire	1
## 989	Sarafurt	1
## 990	South Denise	0
## 991	North Katie	1
## 992	Mauricefurt	1
## 993	New Patrick	0
## 994	Edwardsmouth	1
## 995	Nicholasland	0
## 996	Duffystad	1
## 997	New Darlene	1
## 998	South Jessica	1
## 999	West Steven	0
## 1000	Ronniemouth	0

##		Country	Timestamp
## 1		Tunisia	2016-03-27 00:53:11
## 2		Nauru	2016-04-04 01:39:02
## 3		San Marino	2016-03-13 20:35:42
## 4		Italy	2016-01-10 02:31:19
## 5		Iceland	2016-06-03 03:36:18
## 6		Norway	2016-05-19 14:30:17
## 7		Myanmar	2016-01-28 20:59:32
## 8		Australia	2016-03-07 01:40:15
## 9		Grenada	2016-04-18 09:33:42
## 10		Ghana	2016-07-11 01:42:51
## 11		Qatar	2016-03-16 20:19:01
## 12		Burundi	2016-05-08 08:10:10
## 13		Egypt	2016-06-03 01:14:41
## 14		Bosnia and Herzegovina	2016-04-20 21:49:22
## 15		Barbados	2016-03-24 09:31:49
## 16		Spain	2016-03-09 03:41:30
## 17		Palestinian Territory	2016-01-30 19:20:41
## 18		Afghanistan	2016-05-02 07:00:58
## 19	British Indian Ocean Territory (Chagos Archipelago)		2016-02-13 07:53:55
## 20		Russian Federation	2016-02-27 04:43:07
## 21		Cameroon	2016-01-05 07:52:48
## 22		Cameroon	2016-03-18 13:22:35
## 23		Burundi	2016-05-20 08:49:33
## 24		Korea	2016-03-23 09:43:43
## 25		Tokelau	2016-06-13 17:27:09
## 26		Monaco	2016-05-27 15:25:52
## 27		Tuvalu	2016-02-08 10:46:14

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

## 82	Nicaragua	2016-05-15	14:41:49
## 83	Montserrat	2016-01-05	17:56:52
## 84	Timor-Leste	2016-04-19	07:34:28
## 85	Bouvet Island (Bouvetoya)	2016-03-15	15:49:14
## 86	Puerto Rico	2016-06-12	15:25:44
## 87	Central African Republic	2016-07-01	04:41:57
## 88	Venezuela	2016-05-08	12:12:04
## 89	Australia	2016-03-14	23:13:11
## 90	Wallis and Futuna	2016-05-25	00:19:57
## 91	Jersey	2016-05-13	11:51:10
## 92	Puerto Rico	2016-02-20	20:47:05
## 93	Samoa	2016-05-22	20:49:37
## 94	Greece	2016-04-10	02:02:36
## 95	Antarctica (the territory South of 60 deg S)	2016-02-28	06:41:44
## 96	Albania	2016-07-08	21:18:32
## 97	Hong Kong	2016-04-19	15:14:58
## 98	Lithuania	2016-01-08	22:47:10
## 99	Egypt	2016-03-28	08:46:26
## 100	Bangladesh	2016-07-02	14:57:53
## 101	Western Sahara	2016-07-03	09:22:30
## 102	Serbia	2016-06-01	09:27:34
## 103	Maldives	2016-07-09	14:55:36
## 104	Czech Republic	2016-02-09	22:04:54
## 105	Guernsey	2016-06-10	11:31:33
## 106	Tanzania	2016-02-14	03:50:52
## 107	Bhutan	2016-07-05	17:17:49
## 108	Christmas Island	2016-04-28	05:50:25
## 109	Guinea	2016-04-03	05:10:31
## 110	Micronesia	2016-03-09	14:57:11
## 111	Madagascar	2016-01-16	23:37:51
## 112	Lebanon	2016-07-03	04:33:41
## 113	Eritrea	2016-03-14	06:46:14
## 114	Guyana	2016-01-09	05:44:56
## 115	Trinidad and Tobago	2016-02-11	04:37:34
## 116	Jersey	2016-06-22	07:33:21
## 117	United Arab Emirates	2016-07-13	16:12:24
## 118	Martinique	2016-07-23	11:46:28
## 119	Somalia	2016-07-13	04:10:53
## 120	Bhutan	2016-06-11	18:32:12
## 121	Greece	2016-05-08	12:51:00
## 122	Benin	2016-04-07	16:02:02
## 123	Papua New Guinea	2016-02-04	13:30:32
## 124	Uzbekistan	2016-02-26	19:48:23
## 125	South Africa	2016-06-21	13:15:21
## 126	Egypt	2016-05-17	04:27:31
## 127	Hungary	2016-04-18	15:54:33
## 128	Falkland Islands (Malvinas)	2016-04-03	10:07:56
## 129	Dominica	2016-04-04	21:30:46
## 130	Jersey	2016-07-06	16:00:33
## 131	Lithuania	2016-05-04	09:00:24
## 132	Saint Martin	2016-06-13	18:50:00
## 133	Cuba	2016-01-03	16:01:40
## 134	United States Minor Outlying Islands	2016-01-14	00:23:10
## 135	Belize	2016-01-12	10:07:29

## 136	Belize	2016-04-16 12:09:25
## 137	Antarctica (the territory South of 60 deg S)	2016-05-13 06:09:28
## 138	Saint Vincent and the Grenadines	2016-03-27 23:59:06
## 139	Kuwait	2016-02-03 23:47:56
## 140	Thailand	2016-04-18 11:23:05
## 141	Gibraltar	2016-02-05 19:06:01
## 142	Holy See (Vatican City State)	2016-03-21 18:46:41
## 143	Korea	2016-06-14 11:59:58
## 144	Saint Helena	2016-02-06 23:08:57
## 145	Turks and Caicos Islands	2016-03-12 01:39:19
## 146	Czech Republic	2016-01-26 03:56:18
## 147	Netherlands	2016-02-07 08:02:31
## 148	Belarus	2016-05-05 07:58:22
## 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
## 168	Timor-Leste	2016-04-28 18:34:56
## 169	Brazil	2016-07-06 18:36:01
## 170	Chad	2016-05-27 06:19:27
## 171	Portugal	2016-01-25 07:39:41
## 172	Malawi	2016-05-08 22:47:18
## 173	Qatar	2016-03-19 14:23:45
## 174	Singapore	2016-07-23 04:37:05
## 175	Guinea	2016-06-23 01:22:43
## 176	Kazakhstan	2016-07-19 18:06:22
## 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
## 225	Fiji	2016-04-25	07:30:21
## 226	Turkey	2016-02-10	19:20:51
## 227	Kazakhstan	2016-04-23	14:34:38
## 228	Bahrain	2016-06-18	17:56:32
## 229	Colombia	2016-07-17	01:58:53
## 230	Brunei Darussalam	2016-04-27	04:28:17
## 231	Taiwan	2016-04-21	20:29:35
## 232	Serbia	2016-03-23	06:00:15
## 233	Saint Pierre and Miquelon	2016-07-19	07:59:18
## 234	Australia	2016-06-26	11:52:18
## 235	Chad	2016-03-30	23:40:52
## 236	Norway	2016-03-16	07:59:37
## 237	Turks and Caicos Islands	2016-05-04	00:01:33
## 238	Finland	2016-07-02	21:22:23
## 239	South Africa	2016-05-23	21:14:38
## 240	Martinique	2016-01-29	20:16:54
## 241	Afghanistan	2016-07-23	14:47:23
## 242	Micronesia	2016-02-16	09:11:27
## 243	French Southern Territories	2016-06-09	21:43:05

## 244	Philippines	2016-06-19 09:24:35
## 245	Algeria	2016-06-06 21:26:51
## 246	San Marino	2016-01-07 13:25:21
## 247	Guernsey	2016-04-15 06:08:35
## 248	Sierra Leone	2016-01-09 03:45:19
## 249	Tajikistan	2016-02-10 15:23:17
## 250	Liechtenstein	2016-04-24 13:42:15
## 251	Ecuador	2016-06-12 05:31:19
## 252	Switzerland	2016-01-05 09:42:22
## 253	Moldova	2016-03-02 10:07:43
## 254	Finland	2016-07-21 10:54:35
## 255	France	2016-01-09 04:53:22
## 256	Venezuela	2016-01-06 13:20:01
## 257	Cuba	2016-01-31 04:10:20
## 258	Peru	2016-06-11 08:38:16
## 259	Turkey	2016-05-15 20:48:40
## 260	Albania	2016-06-18 17:23:26
## 261	French Southern Territories	2016-03-17 05:00:12
## 262	Papua New Guinea	2016-06-29 13:35:05
## 263	Liechtenstein	2016-02-02 08:55:26
## 264	Thailand	2016-04-13 05:42:52
## 265	Malaysia	2016-07-20 09:27:24
## 266	Mauritius	2016-02-26 04:57:14
## 267	Algeria	2016-02-26 09:18:48
## 268	Christmas Island	2016-04-15 14:45:48
## 269	Japan	2016-02-01 14:37:34
## 270	Greenland	2016-01-20 19:09:37
## 271	Sao Tome and Principe	2016-04-23 06:28:43
## 272	Senegal	2016-06-19 22:26:16
## 273	Guadeloupe	2016-02-15 07:55:10
## 274	Belgium	2016-02-09 19:37:52
## 275	Israel	2016-01-25 07:52:53
## 276	Honduras	2016-07-18 11:33:31
## 277	Estonia	2016-01-09 07:28:16
## 278	Paraguay	2016-03-21 21:15:54
## 279	Kyrgyz Republic	2016-02-15 12:25:28
## 280	Mauritania	2016-03-04 08:48:29
## 281	French Guiana	2016-01-05 00:02:53
## 282	Northern Mariana Islands	2016-05-15 01:03:06
## 283	Lebanon	2016-05-05 09:28:36
## 284	Saint Pierre and Miquelon	2016-05-26 13:18:30
## 285	American Samoa	2016-05-21 01:36:16
## 286	Austria	2016-05-04 12:06:18
## 287	Tonga	2016-07-05 18:59:45
## 288	Tonga	2016-06-28 20:13:41
## 289	French Southern Territories	2016-05-05 11:09:29
## 290	Serbia	2016-03-25 15:17:39
## 291	New Caledonia	2016-01-23 15:02:13
## 292	Taiwan	2016-05-29 07:29:27
## 293	United States of America	2016-05-30 07:36:31
## 294	Morocco	2016-04-17 15:46:03
## 295	Suriname	2016-07-20 23:08:28
## 296	Macedonia	2016-06-29 03:07:51
## 297	Wallis and Futuna	2016-04-10 14:48:35

## 298	Chile	2016-04-16	16:38:35
## 299	Gabon	2016-05-03	08:21:23
## 300	Gabon	2016-03-18	16:04:59
## 301	Holy See (Vatican City State)	2016-05-22	00:01:58
## 302	Seychelles	2016-02-01	20:30:35
## 303	Mayotte	2016-01-23	17:39:06
## 304	Uganda	2016-05-19	03:52:24
## 305	Cambodia	2016-05-09	21:54:38
## 306	Antigua and Barbuda	2016-05-31	11:44:45
## 307	Cameroon	2016-03-30	19:09:50
## 308	Somalia	2016-01-09	15:49:28
## 309	Lebanon	2016-04-18	03:41:56
## 310	Saint Pierre and Miquelon	2016-06-13	13:59:51
## 311	Dominica	2016-04-23	08:15:31
## 312	Hungary	2016-03-27	16:41:29
## 313	Taiwan	2016-02-19	07:29:30
## 314	Saint Lucia	2016-05-19	11:16:59
## 315	Niue	2016-01-27	20:47:57
## 316	France	2016-04-20	00:41:53
## 317	Cyprus	2016-02-07	07:41:06
## 318	French Southern Territories	2016-04-21	09:30:35
## 319	Costa Rica	2016-04-19	05:15:28
## 320	Austria	2016-04-12	14:01:08
## 321	Zambia	2016-03-15	11:25:48
## 322	Congo	2016-02-16	18:21:36
## 323	United States of America	2016-02-18	23:08:59
## 324	Pitcairn Islands	2016-03-25	08:40:15
## 325	Belize	2016-03-16	00:28:10
## 326	Anguilla	2016-01-28	11:50:40
## 327	South Africa	2016-03-24	02:01:55
## 328	Singapore	2016-03-03	22:31:16
## 329	Finland	2016-02-26	09:54:33
## 330	Martinique	2016-07-06	15:56:39
## 331	Cameroon	2016-06-24	05:50:22
## 332	Sweden	2016-05-23	21:00:45
## 333	New Caledonia	2016-02-03	19:12:51
## 334	Bosnia and Herzegovina	2016-04-28	22:54:37
## 335	Singapore	2016-03-19	14:57:00
## 336	Falkland Islands (Malvinas)	2016-07-15	09:08:42
## 337	Bosnia and Herzegovina	2016-05-12	04:35:59
## 338	Mauritius	2016-01-01	21:58:55
## 339	Indonesia	2016-03-13	13:50:25
## 340	Czech Republic	2016-07-16	14:13:54
## 341	Eritrea	2016-04-18	00:49:33
## 342	Mexico	2016-07-17	01:13:56
## 343	Gibraltar	2016-02-17	07:05:57
## 344	Haiti	2016-06-16	02:33:22
## 345	Falkland Islands (Malvinas)	2016-04-09	16:31:15
## 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
## 353	Libyan Arab Jamahiriya	2016-01-31 06:14:10
## 354	Cambodia	2016-01-05 16:34:31
## 355	Saint Barthelemy	2016-05-31 02:17:18
## 356	Reunion	2016-04-21 16:10:50
## 357	Antigua and Barbuda	2016-04-10 03:30:16
## 358	Samoa	2016-02-09 07:21:25
## 359	Afghanistan	2016-06-17 17:11:16
## 360	Azerbaijan	2016-05-22 21:54:23
## 361	Philippines	2016-07-13 07:41:42
## 362	Angola	2016-01-23 18:59:21
## 363	Albania	2016-05-20 12:17:59
## 364	Hungary	2016-01-30 04:38:41
## 365	Faroe Islands	2016-04-21 12:34:28
## 366	Czech Republic	2016-04-22 20:32:17
## 367	Svalbard & Jan Mayen Islands	2016-01-11 06:02:27
## 368	Afghanistan	2016-03-01 10:01:35
## 369	Rwanda	2016-04-04 08:19:54
## 370	Panama	2016-06-20 06:30:06
## 371	Samoa	2016-01-28 07:10:29
## 372	United States Minor Outlying Islands	2016-07-03 04:11:40
## 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
## 376	Anguilla	2016-05-26 15:40:26
## 377	Cyprus	2016-01-26 15:56:55
## 378	Peru	2016-06-17 09:58:46
## 379	Kenya	2016-04-25 21:15:39
## 380	Chad	2016-07-13 11:41:29
## 381	Kyrgyz Republic	2016-07-05 15:14:10
## 382	Albania	2016-03-15 14:06:17
## 383	Gabon	2016-06-19 22:08:15
## 384	Dominican Republic	2016-07-05 20:16:13
## 385	Zimbabwe	2016-05-09 08:44:55
## 386	Croatia	2016-07-21 23:14:35
## 387	Cambodia	2016-06-03 17:32:47
## 388	Mongolia	2016-01-15 19:40:47
## 389	Honduras	2016-02-05 16:50:58
## 390	Madagascar	2016-02-29 23:56:06
## 391	Qatar	2016-05-08 12:08:26
## 392	China	2016-07-13 01:48:46
## 393	Bangladesh	2016-01-08 02:34:06
## 394	Swaziland	2016-06-08 12:25:49
## 395	Tanzania	2016-06-15 11:56:41
## 396	Eritrea	2016-06-13 22:41:45
## 397	Canada	2016-06-20 14:20:52
## 398	Saint Kitts and Nevis	2016-04-03 06:17:22
## 399	Burkina Faso	2016-05-31 23:42:26
## 400	Tuvalu	2016-02-15 03:43:55
## 401	El Salvador	2016-03-10 23:26:54
## 402	Madagascar	2016-02-26 17:01:01
## 403	Bangladesh	2016-04-17 21:39:11
## 404	American Samoa	2016-03-26 19:54:16
## 405	Latvia	2016-06-29 21:39:42

## 406	Moldova	2016-01-27	17:55:44
## 407	Anguilla	2016-03-17	23:39:28
## 408	Bangladesh	2016-07-09	16:23:33
## 409	Faroe Islands	2016-06-28	12:51:02
## 410	Taiwan	2016-06-18	16:32:58
## 411	Heard Island and McDonald Islands	2016-05-28	12:38:37
## 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
## 421	Libyan Arab Jamahiriya	2016-05-16	14:50:22
## 422	Kazakhstan	2016-04-17	19:10:56
## 423	French Guiana	2016-03-30	01:05:34
## 424	Tuvalu	2016-06-29	09:04:31
## 425	Congo	2016-05-26	13:43:05
## 426	United Kingdom	2016-04-15	10:16:49
## 427	Luxembourg	2016-05-31	09:06:29
## 428	French Polynesia	2016-02-15	14:13:47
## 429	Papua New Guinea	2016-05-09	10:21:48
## 430	Maldives	2016-07-07	23:32:38
## 431	Zambia	2016-01-03	17:10:05
## 432	Cook Islands	2016-07-17	18:55:38
## 433	Congo	2016-04-04	18:36:59
## 434	Senegal	2016-02-27	12:34:19
## 435	Myanmar	2016-06-08	20:13:27
## 436	Dominican Republic	2016-02-20	10:52:51
## 437	Bahrain	2016-03-23	21:06:51
## 438	Puerto Rico	2016-06-07	01:29:06
## 439	Chile	2016-01-18	15:18:01
## 440	Bolivia	2016-06-09	19:32:27
## 441	Serbia	2016-05-30	20:07:59
## 442	Malaysia	2016-04-01	09:21:14
## 443	Estonia	2016-05-31	06:21:02
## 444	Greenland	2016-07-03	22:13:19
## 445	Trinidad and Tobago	2016-03-10	01:36:19
## 446	Thailand	2016-03-18	02:39:26
## 447	Philippines	2016-05-30	18:08:19
## 448	Niue	2016-02-20	00:06:20
## 449	Afghanistan	2016-03-10	22:28:52
## 450	Angola	2016-06-21	14:32:32
## 451	Egypt	2016-02-05	15:26:37
## 452	Fiji	2016-05-31	21:41:46
## 453	Portugal	2016-01-01	02:52:10
## 454	Austria	2016-03-04	14:10:12
## 455	Germany	2016-02-03	10:40:27
## 456	Panama	2016-01-20	00:26:15
## 457	United States of America	2016-06-11	09:37:52
## 458	Christmas Island	2016-03-08	05:48:20
## 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
## 469	Indonesia	2016-03-22	06:41:38
## 470	Cook Islands	2016-06-03	06:34:44
## 471	Australia	2016-06-28	09:19:06
## 472	Finland	2016-07-18	18:33:05
## 473	Pakistan	2016-01-23	04:47:37
## 474	Ireland	2016-02-29	11:00:06
## 475	Eritrea	2016-06-30	00:19:33
## 476	France	2016-06-19	18:19:38
## 477	Austria	2016-01-08	08:08:47
## 478	Heard Island and McDonald Islands	2016-01-02	12:25:36
## 479	Western Sahara	2016-05-13	11:57:12
## 480	Liberia	2016-02-08	14:02:22
## 481	Dominican Republic	2016-06-07	23:46:51
## 482	Tonga	2016-01-02	14:36:03
## 483	Lao People's Democratic Republic	2016-02-13	04:16:08
## 484	United States of America	2016-05-03	12:57:19
## 485	Belgium	2016-04-03	11:38:36
## 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

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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 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 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))
```

```
## 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      Year      Month
##              0              0              0
##              Day      Hour
##              0              0
```

```
#dropping the timestamp column
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 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
##      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
```

```
# Removing duplicates from all columns
advertising = advertising[!duplicated(advertising), ]
```

```
#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)
```

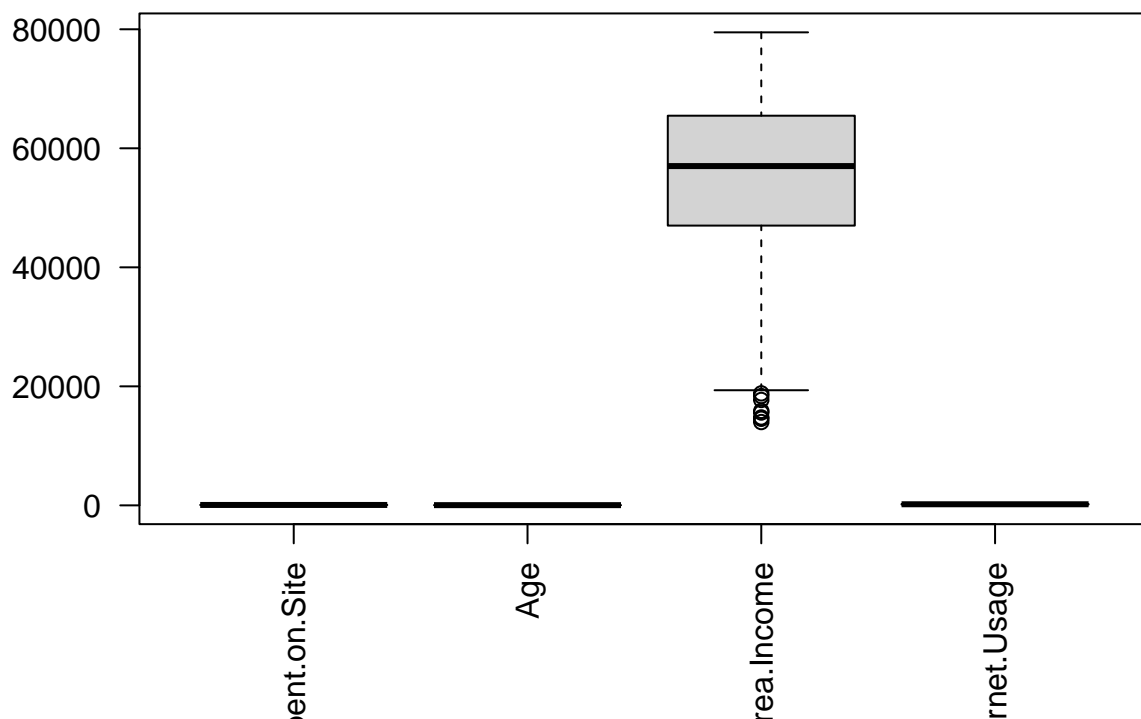
```
advertising$Hour <- as.factor(advertising$Hour)
str(advertising)
```

```
## '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 standardi
## $ City : chr "Wrightburgh" "West Jodi" "Davidton" "West Terrifurt" ...
## $ Male : 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

```
#Create a list of numeric columns
num.cols <- list(advertising$Daily.Time.Spent.on.Site,advertising$Age,
advertising$Area.Income,advertising$Daily.Internet.Usage)
#Checking for outliers
boxplot(num.cols, names=c('Daily.Time.Spent.on.Site', 'Age', 'Area.Income', 'Daily.Internet.Usage'), ma
```

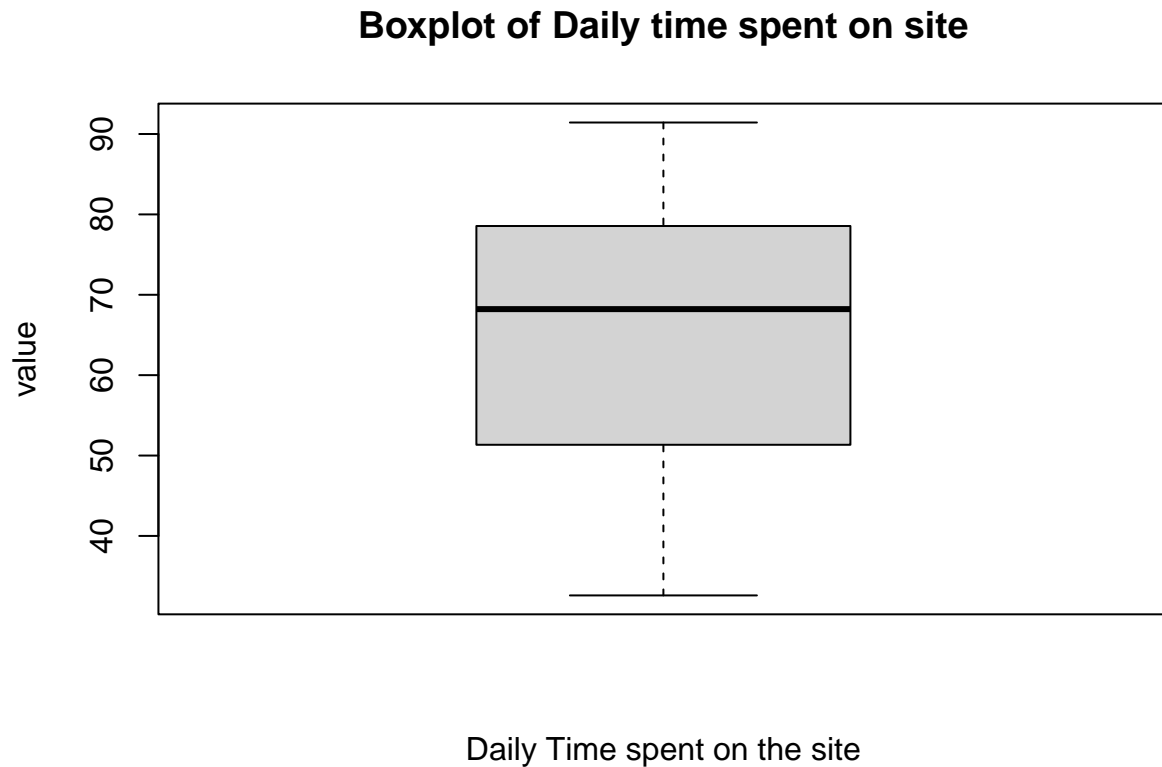
Boxplots to show Outliers



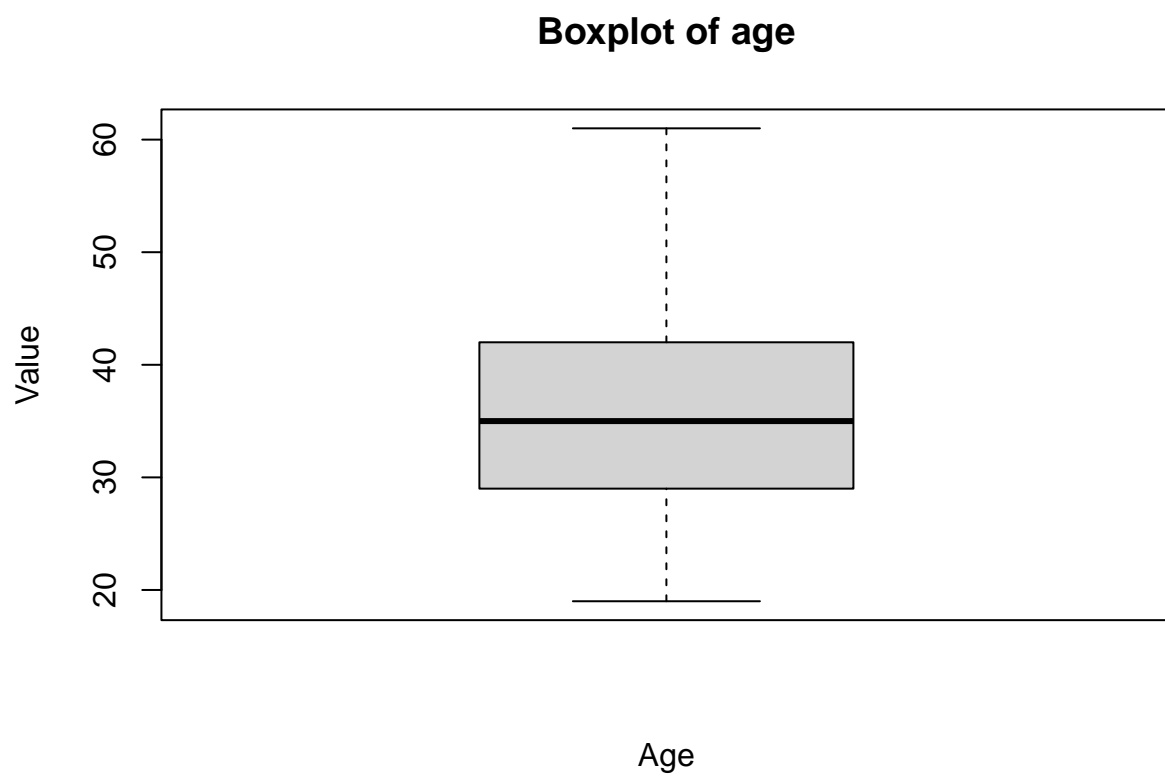
```
#Listing the outliers  
boxplot.stats(advertising$Area.Income)$out
```

```
## [1] 17709.98 18819.34 15598.29 15879.10 14548.06 13996.50 14775.50 18368.57
```

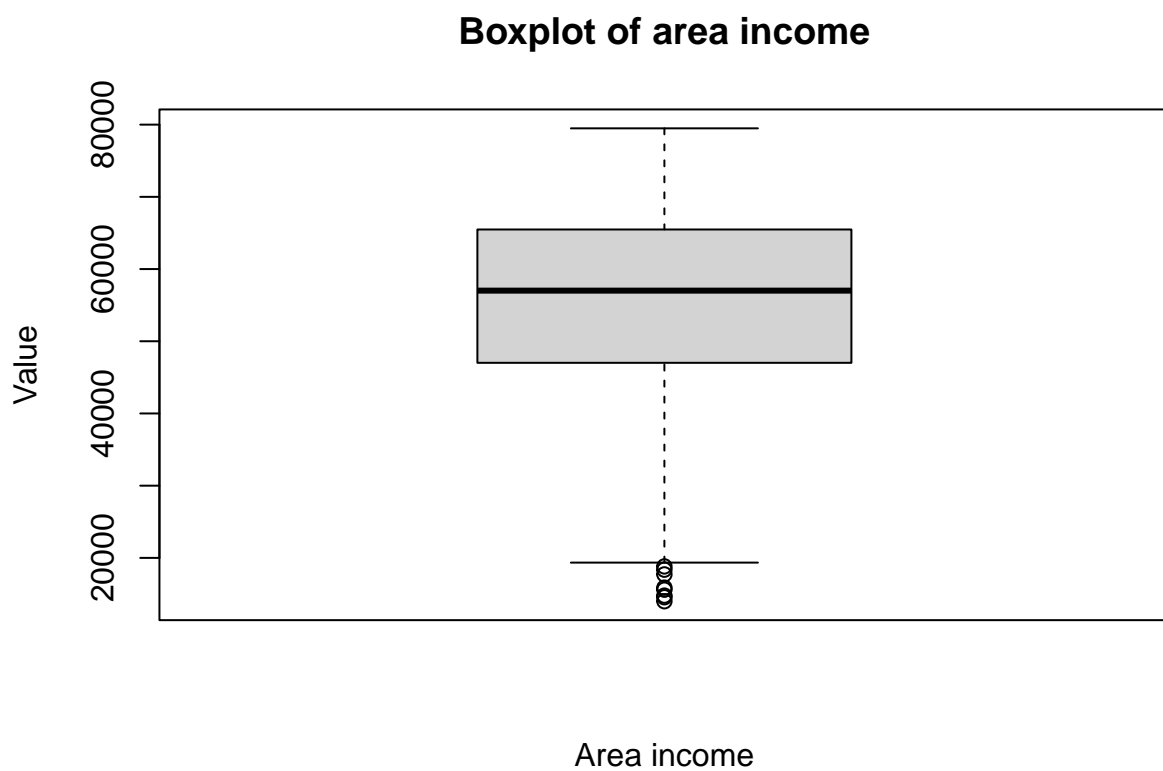
```
#Plotting boxplots of individual columns so it's easier to observe  
boxplot(advertising$Daily.Time.Spent.on.Site, main='Boxplot of Daily time spent on site', xlab='Daily T
```



```
boxplot(advertising$Age, main='Boxplot of age', xlab='Age', ylab='Value')
```

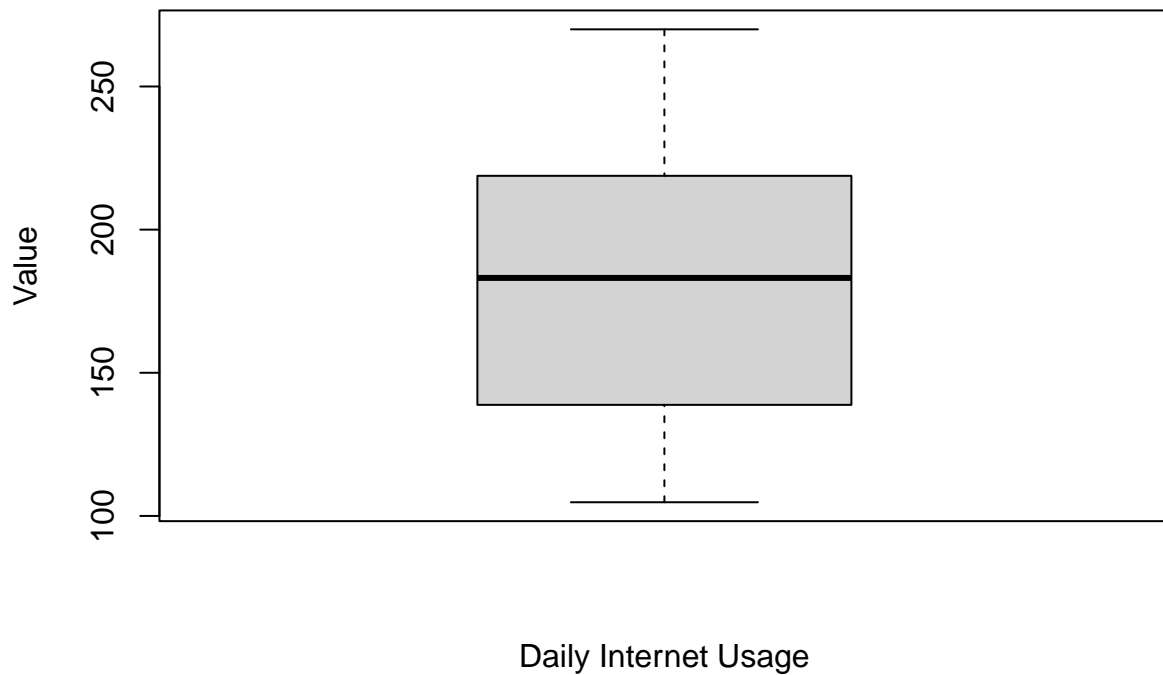



```
boxplot(advertising$Area.Income, main='Boxplot of area income', xlab='Area income', ylab='Value')
```



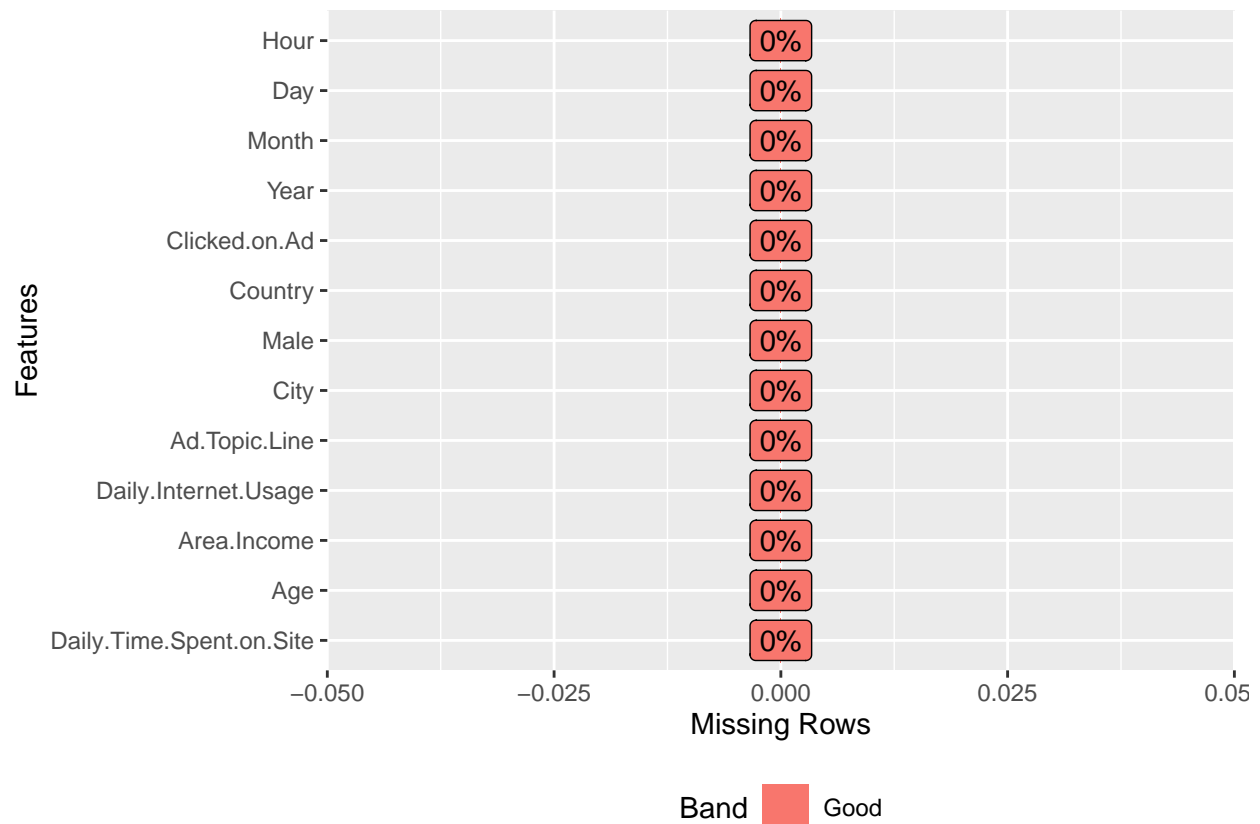
```
boxplot(advertising$Daily.Internet.Usage, main='Boxplot of Daily Internet Usage', xlab='Daily Internet Usage')
```

Boxplot of Daily Internet Usage



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

```
# checking the percentage of missing values for all variables  
plot_missing(advertising)
```



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

#Finding the 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
```

#Finding the median

```
#loading the tidyverse and robustbase(for the colMedians function) libraries
library(robustbase)
```

```
##
## Attaching package: 'robustbase'

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

```
library(tidyverse)
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(x) {
#  uniq_data <- unique(x)
#  map_data <- match(x, uniq_data)
#  tab_data <- tabulate(map_data)
#  max_val <- max(tab_data)
#  uniq_data[tab_data == max_val]
#}
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)
```

```
## NULL
```

```
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
```

```
Daily time spent on site- 68.215 minutes  
Age- 35years  
area income- 57012.3  
Daily internet usage- 183.13 minutes
```

Measures of Dispersion

```
#Finding the minimum
```

```
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
```

```
#Finding the maximum
```

```
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
```

```
#Finding the 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
```

```
#Finding the 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
```

```
#Finding the variance
```

```
var(advertising$Daily.Time.Spent.on.Site)
```

```
## [1] 251.3371
```

```
var(advertising$Age)
```

```
## [1] 77.18611
```

```
var(advertising$Area.Income)
```

```
## [1] 179952406
```

```
#Finding the 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
```



```
#Finding skewness  
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
```

```
#Finding Kurtosis  
kurtosis(advertising$Daily.Time.Spent.on.Site)
```

```
## [1] -1.099864
```

```
kurtosis(advertising$Age)
```

```
## [1] -0.4097066
```

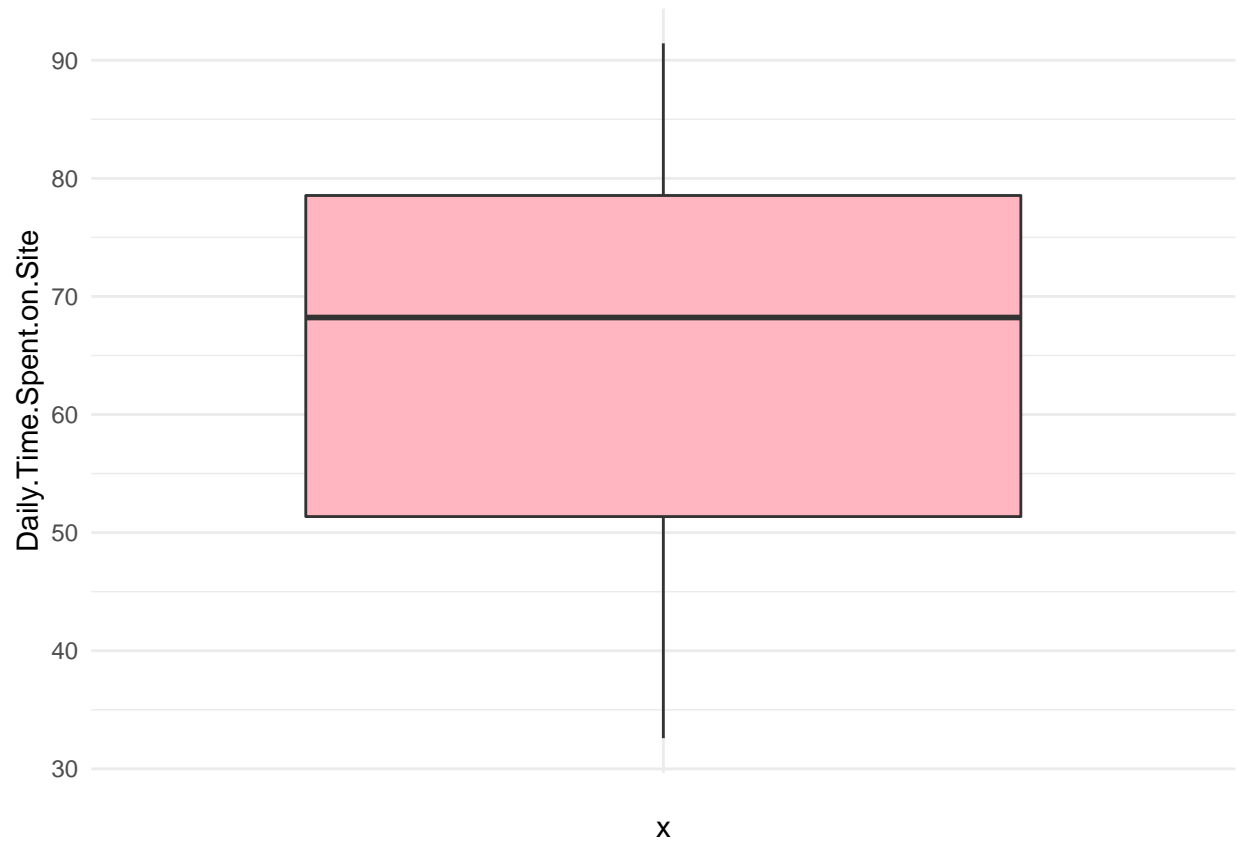
```
kurtosis(advertising$Area.Income)
```

```
## [1] -0.1110924
```

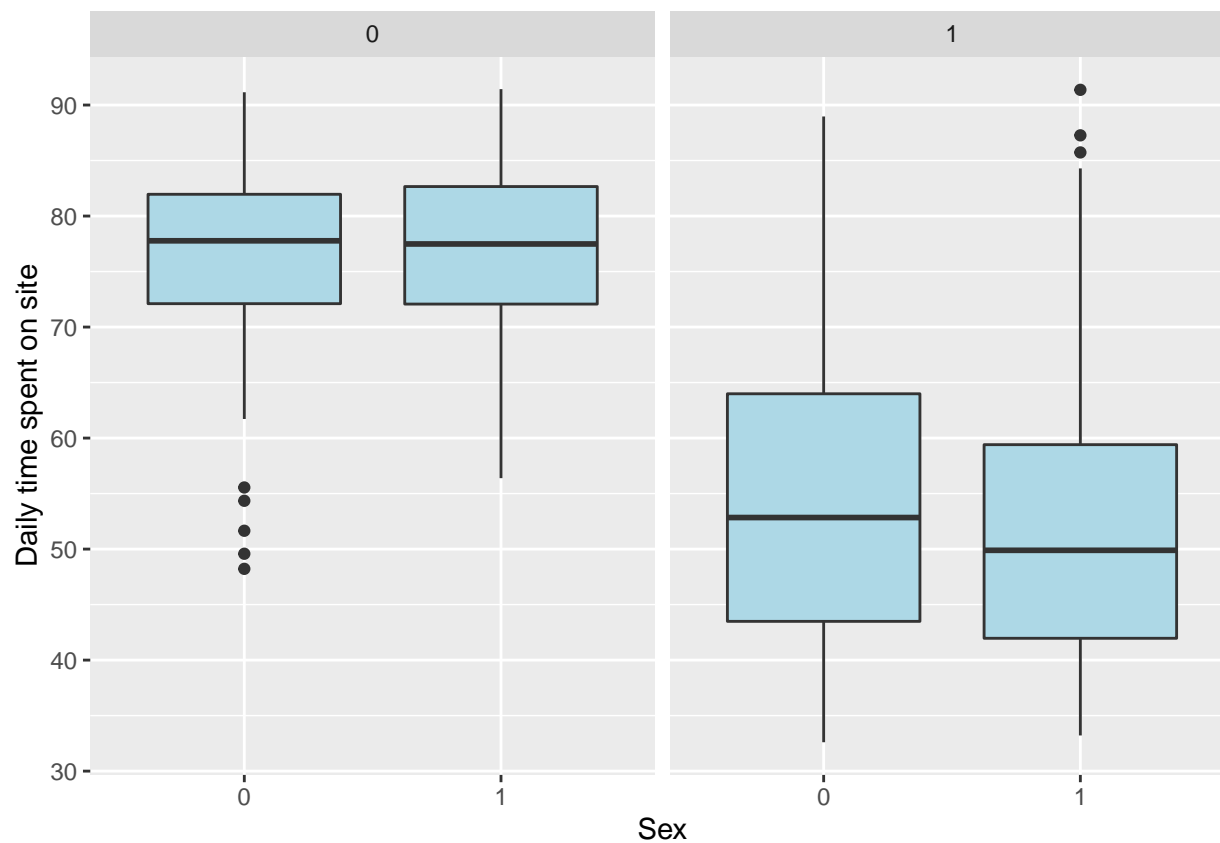
```
kurtosis(advertising$Daily.Internet.Usage)
```

```
## [1] -1.275752
```

```
#renaming dataframe  
IPAdvertisingData <- advertising  
# plotting  
ggplot(IPAdvertisingData) +  
  aes(x = "", y = Daily.Time.Spent.on.Site) +  
  geom_boxplot(fill = "#FFB6C1") +  
  theme_minimal()
```



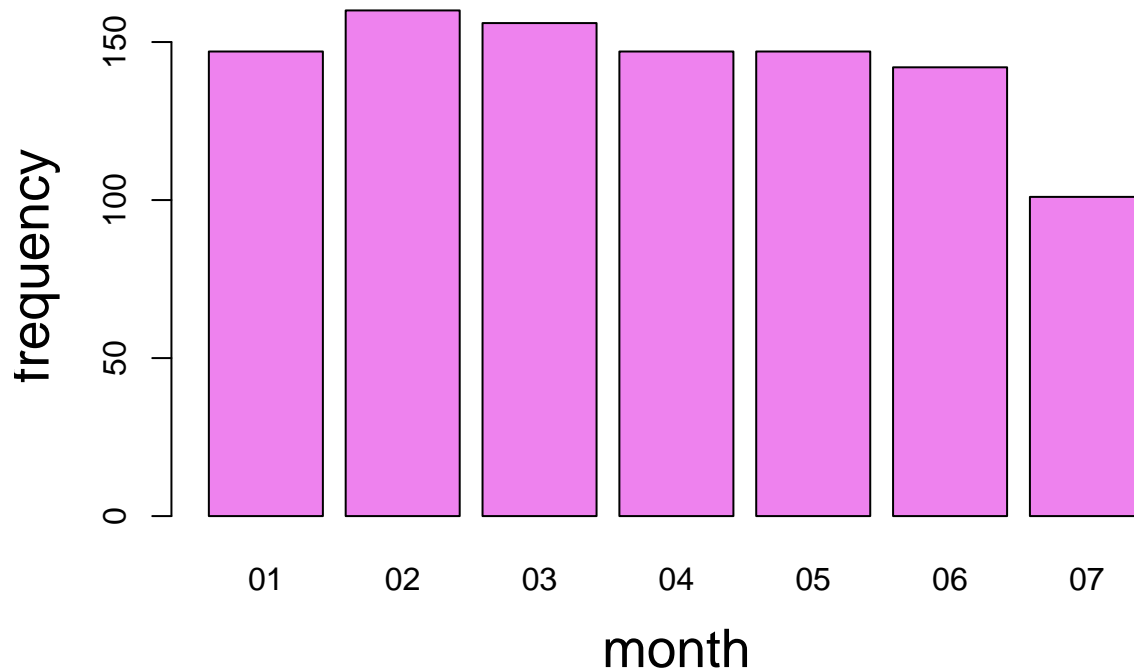
```
# Daily time pent on the site comparison by gender
IPAdvertisingData %>%
  ggplot(aes(x=Male,y=Daily.Time.Spent.on.Site))+
  geom_boxplot(fill='lightblue')+
  xlab("Sex")+
  ylab("Daily time spent on site")+
  facet_grid(~Clicked.on.Ad)
```



#comparison of month and clicked on ad

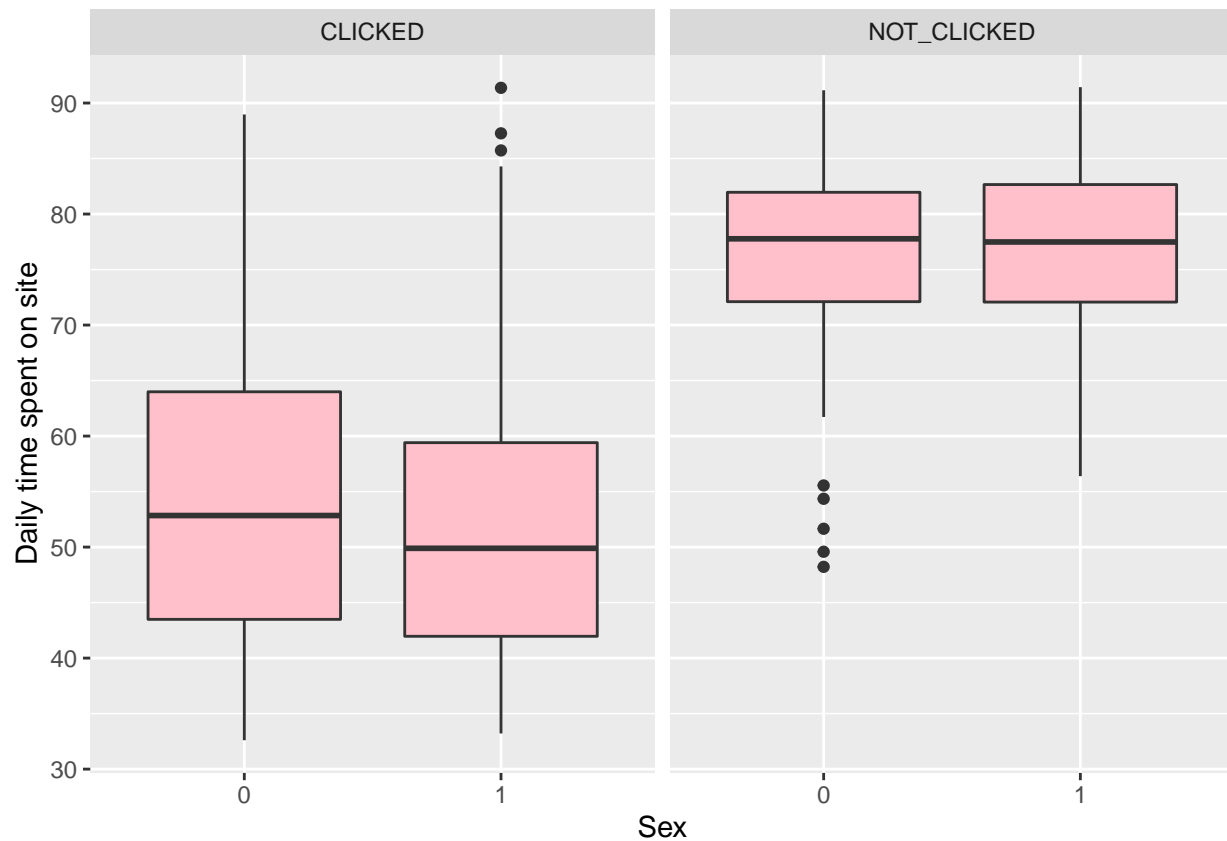
```
month_frequency <- table(IPAdvertisingData$Month)
#plotting bar chart of months column
options(repr.plot.width = 10, repr.plot.height = 10)
barplot(c(month_frequency), main="Month frequency.",
        xlab="month",
        ylab="frequency",
        cex.main=2, cex.lab=1.7, cex.sub=1.2,
        width=c(30,30),
        col=c("violet"))
```

Month frequency.

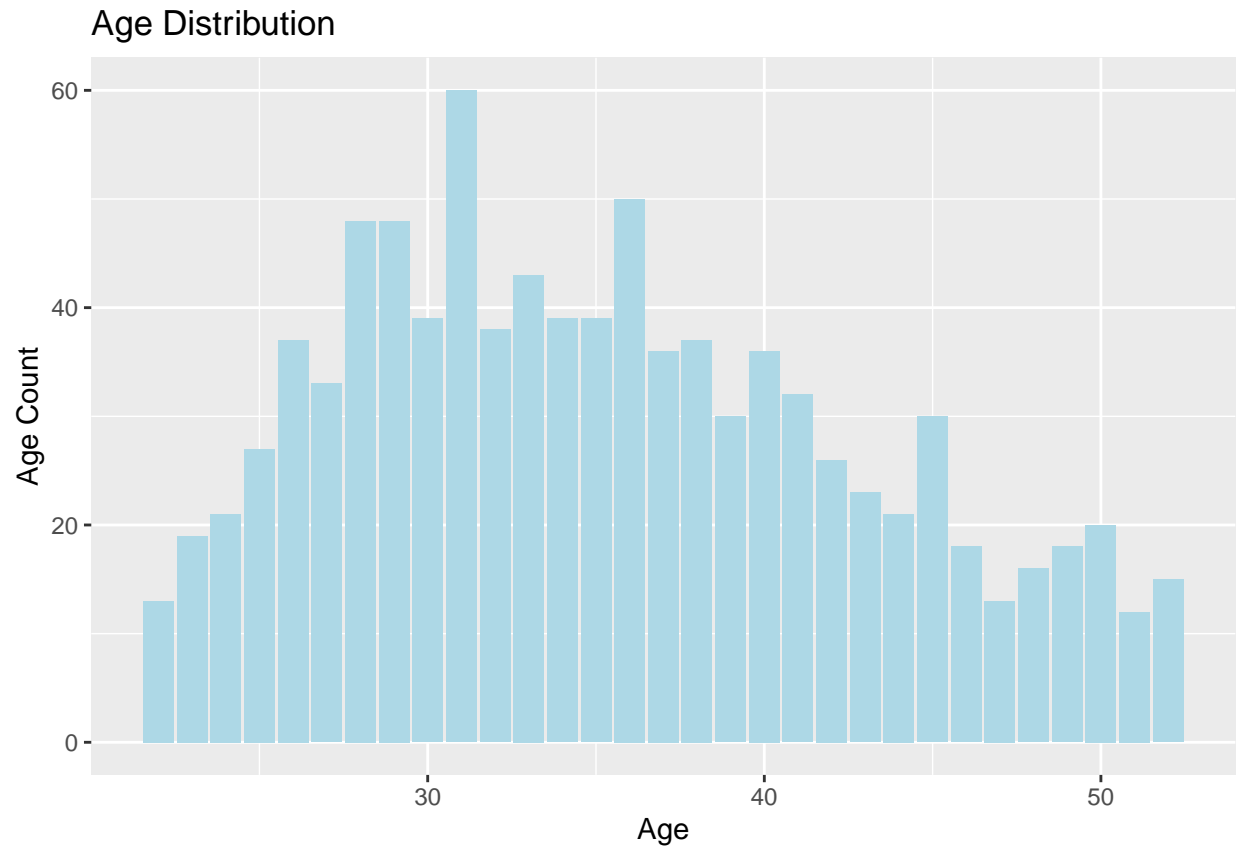


```
# Converting 0,1 to Female, Male so visualization's better
IPAdvertisingData <- IPAdvertisingData %>%
  mutate(Clicked.on.Ad = if_else(Clicked.on.Ad == 1, "CLICKED", "NOT_CLICKED"))
```

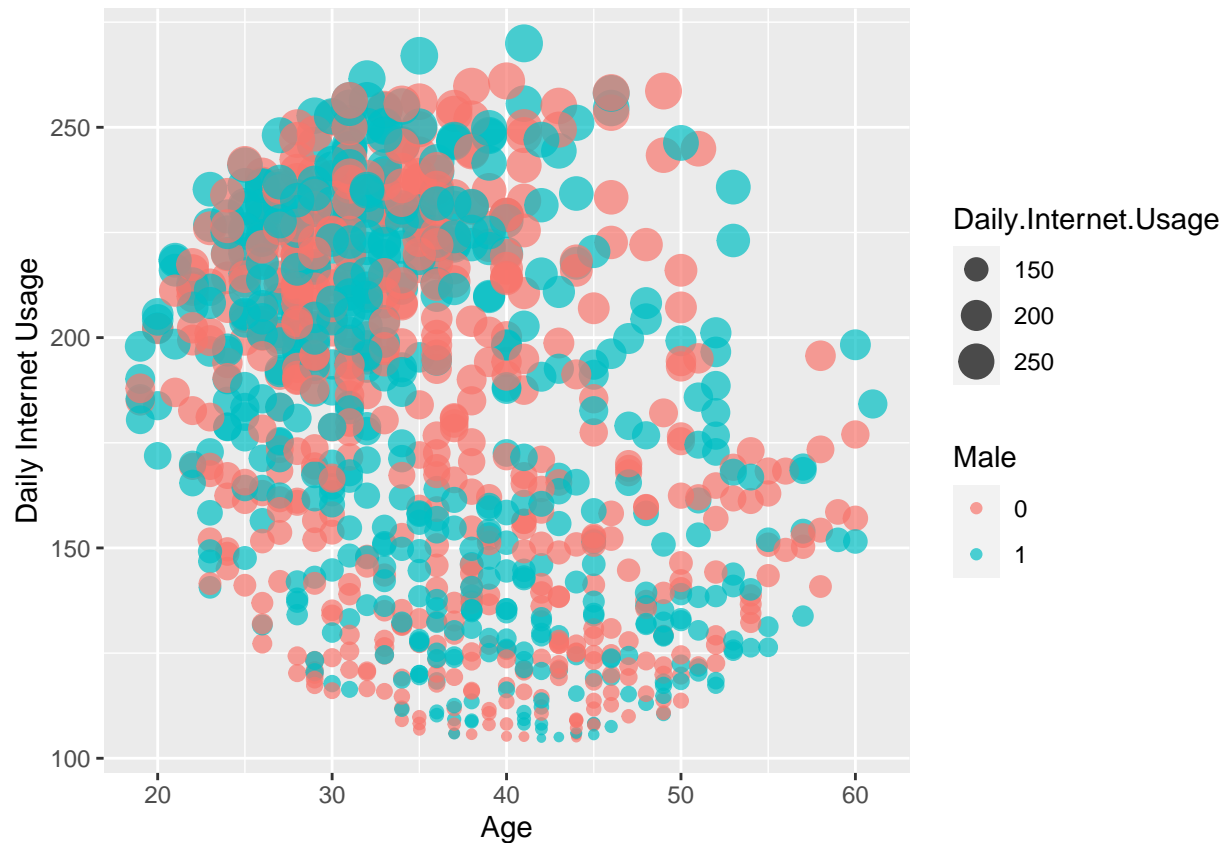
```
# Daily time pent on the site comparison by gender and age
IPAdvertisingData %>%
  ggplot(aes(x=Male,y=Daily.Time.Spent.on.Site, group=Male))+
  geom_boxplot(fill='pink')+
  xlab("Sex")+
  ylab("Daily time spent on site")+
  facet_grid(~Clicked.on.Ad)
```



```
# Counting the age distribution
IPAdvertisingData %>%
  group_by(Age) %>%
  count() %>%
  filter(n > 10) %>%
  ggplot()+
  geom_col(aes(Age, n), fill = "lightblue")+
  ggtitle("Age Distribution") +
  xlab("Age") +
  ylab("Age Count")
```



```
# bivariate analysis on Age, Gender and Daily internet Usage
IPAdvertisingData %>%
  ggplot(aes(x=Age,y=Daily.Internet.Usage,color=Male, size=Daily.Internet.Usage))+
  geom_point(alpha=0.7)+xlab("Age") +
  ylab("Daily Internet Usage")+
  guides(fill = guide_legend(title = "Gender"))
```



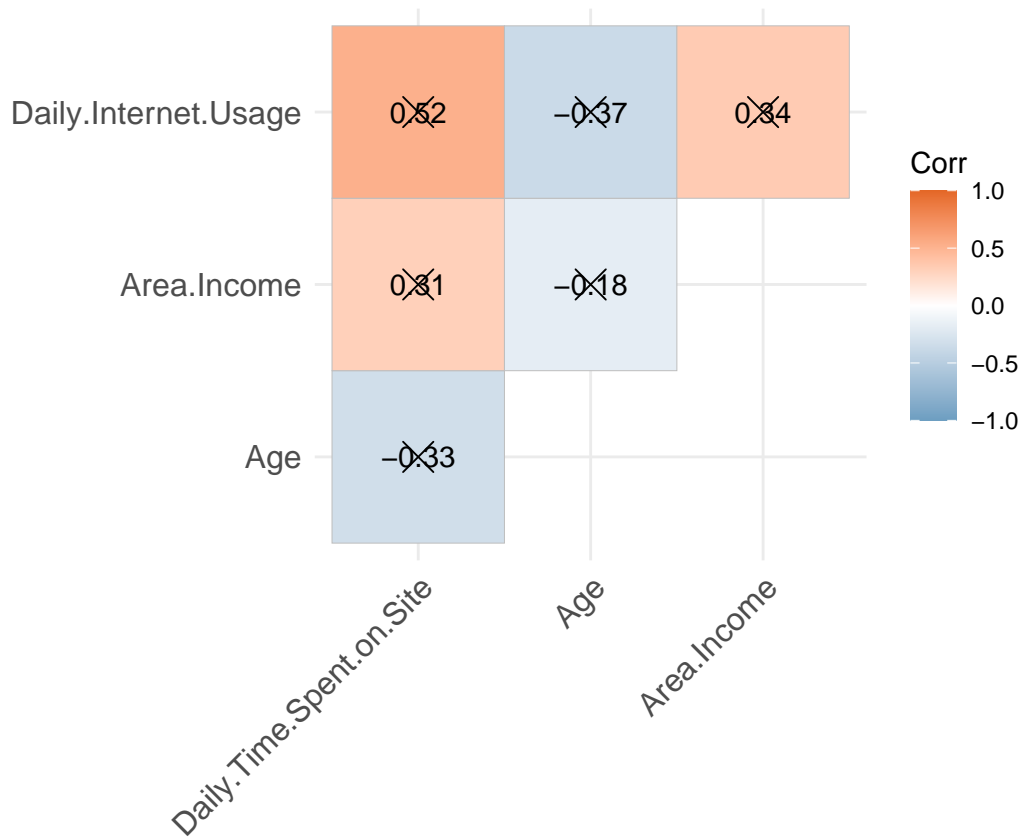
gender seems to be a neutral feature when it comes to daily internet usage unlike age

```
corr <- cor(IPAdvertisingData%>% select_if(is.numeric))
corr
```

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

```
#corrplot(corr, method = "ellipse", type="upper",)
```

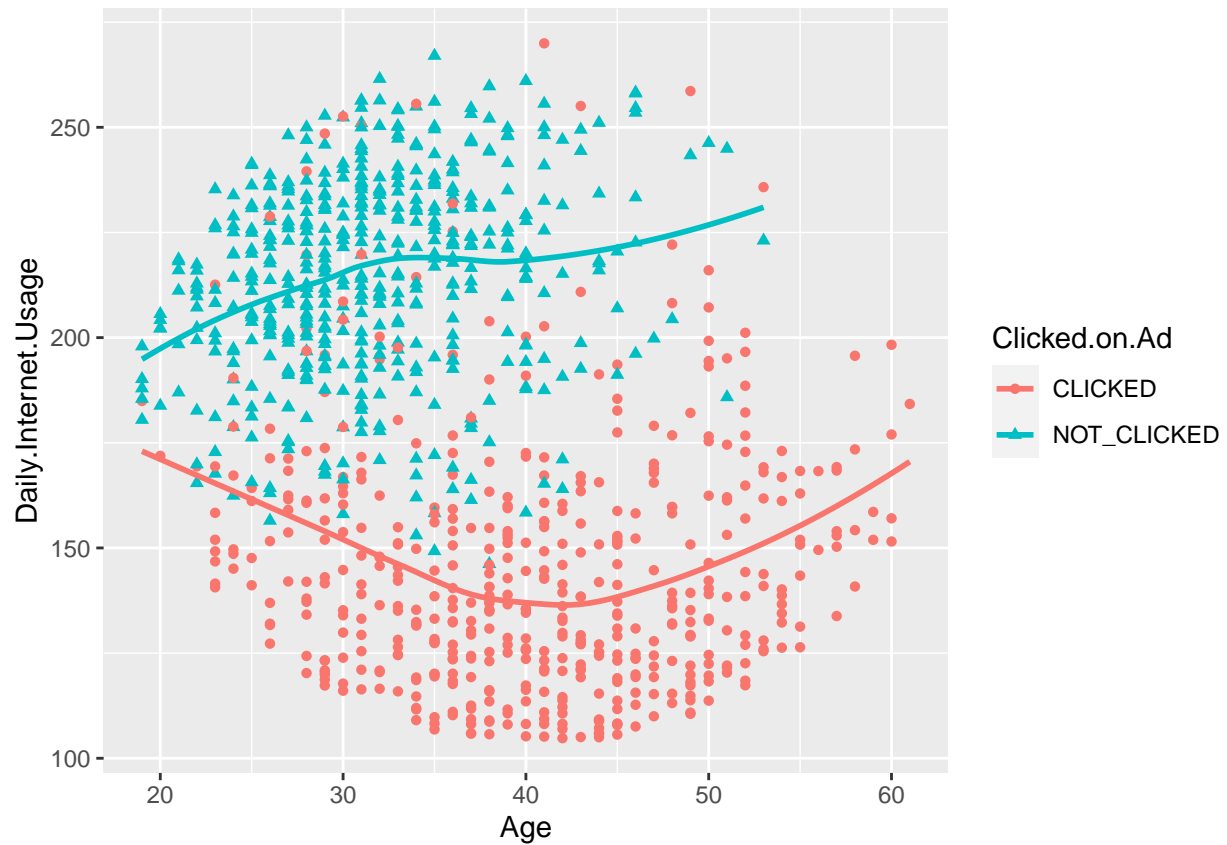
```
p.mat <- cor_pmat(corr, method = "spearman")
ggcorrplot(corr, method = "square", type = "upper",
  colors = c("#6D9EC1", "white", "#E46726"),
  lab = TRUE, p.mat=p.mat, sig.level = .05)
```



Daily internet usage and daily time spent on site are positively correlated while age and daily internet usage are negatively correlated

```
ggplot(IPAdvertisingData, aes(x = Age, y = Daily.Internet.Usage, color = Clicked.on.Ad, shape = Clicked
  geom_point()+
  geom_smooth(se = FALSE);
```

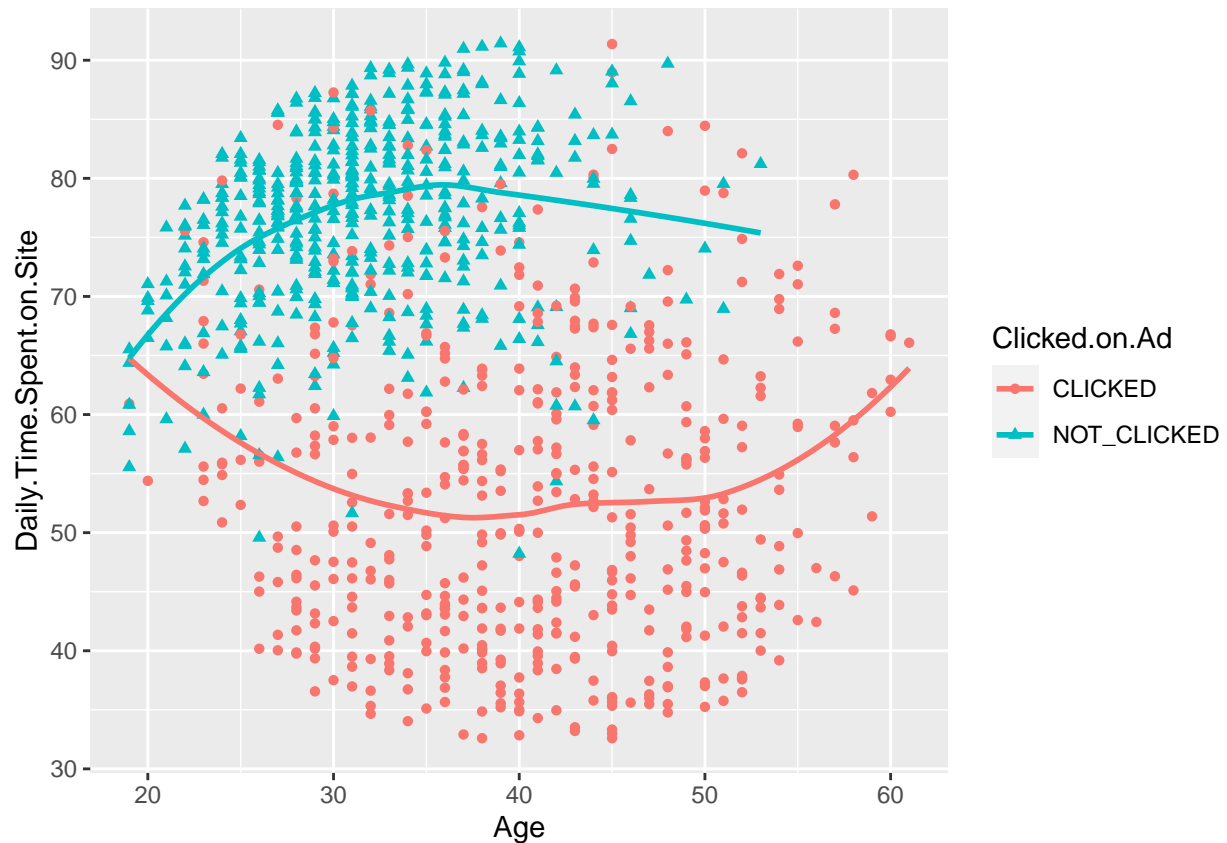
```
## 'geom_smooth()' using method = 'loess' and formula 'y ~ x'
```

Observations: majority of the people who actually clicked on the ad had a surprisingly low daily internet usage and most were above the age of 40

```
ggplot(IPAdvertisingData, aes(x = Age, y = Daily.Time.Spent.on.Site, color = Clicked.on.Ad, shape = Clicked.on.Ad)) +
  geom_point() +
  geom_smooth(se = FALSE);
```

```
## 'geom_smooth()' using method = 'loess' and formula 'y ~ x'
```



#7. Modeling

Feature Engineering

```
advertising<-IPAdvertisingData
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
##   Clicked.on.Ad Year Month Day Hour
## 1   NOT_CLICKED 2016   03  27   00
## 2   NOT_CLICKED 2016   04   4   01
## 3   NOT_CLICKED 2016   03  13   20
```

```
## 4 NOT_CLICKED 2016 01 10 02
## 5 NOT_CLICKED 2016 06 03 03
## 6 NOT_CLICKED 2016 05 19 14
```

#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 Male
## 1                68.95  35    61833.90          256.09      0
## 2                80.23  31    68441.85          193.77      1
## 3                69.47  26    59785.94          236.50      0
## 4                74.15  29    54806.18          245.89      1
## 5                68.37  35    73889.99          225.58      0
## 6                59.99  23    59761.56          226.74      1
##   Clicked.on.Ad Month Day Hour
## 1 NOT_CLICKED    03  27   00
## 2 NOT_CLICKED    04  04   01
## 3 NOT_CLICKED    03  13   20
## 4 NOT_CLICKED    01  10   02
## 5 NOT_CLICKED    06  03   03
## 6 NOT_CLICKED    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 Male
## 1                68.95  35    61833.90          256.09      0
## 2                80.23  31    68441.85          193.77      1
## 3                69.47  26    59785.94          236.50      0
## 4                74.15  29    54806.18          245.89      1
## 5                68.37  35    73889.99          225.58      0
## 6                59.99  23    59761.56          226.74      1
##   Clicked.on.Ad Month Day Hour
## 1 NOT_CLICKED     3  27     0
## 2 NOT_CLICKED     4   4     1
## 3 NOT_CLICKED     3  13    20
## 4 NOT_CLICKED     1  10     2
## 5 NOT_CLICKED     6   3     3
## 6 NOT_CLICKED     5  19    14
```

```
advertising$Male <- as.numeric(as.character(advertising$Male))
head(advertising)
```

```
##   Daily.Time.Spent.on.Site Age Area.Income Daily.Internet.Usage Male
## 1                68.95  35    61833.90          256.09      0
## 2                80.23  31    68441.85          193.77      1
## 3                69.47  26    59785.94          236.50      0
```

```
## 4          74.15 29    54806.18          245.89    1
## 5          68.37 35    73889.99          225.58    0
## 6          59.99 23    59761.56          226.74    1
##   Clicked.on.Ad Month Day Hour
## 1   NOT_CLICKED    3  27    0
## 2   NOT_CLICKED    4   4    1
## 3   NOT_CLICKED    3  13   20
## 4   NOT_CLICKED    1  10    2
## 5   NOT_CLICKED    6   3    3
## 6   NOT_CLICKED    5  19   14
```

```
# Normalizing the dataset so that no particular attribute
# has more impact on modeling algorithm than others.
normalize <- function(x){
  return ((x-min(x)) / (max(x)-min(x)))
}
#data$Age<- normalize(data$Age)
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$Male<- normalize(advertising$Male)
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 Male
## 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   NOT_CLICKED 0.3333333 0.8666667 0.0000000
## 2   NOT_CLICKED 0.5000000 0.1000000 0.04347826
## 3   NOT_CLICKED 0.3333333 0.4000000 0.86956522
## 4   NOT_CLICKED 0.0000000 0.3000000 0.08695652
## 5   NOT_CLICKED 0.8333333 0.0666667 0.13043478
## 6   NOT_CLICKED 0.6666667 0.6000000 0.60869565
```

```
advertising$Geder <- NULL
head(advertising)
```

```
##   Daily.Time.Spent.on.Site      Age Area.Income Daily.Internet.Usage Male
## 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 NOT_CLICKED 0.3333333 0.8666667 0.0000000
## 2 NOT_CLICKED 0.5000000 0.1000000 0.04347826
## 3 NOT_CLICKED 0.3333333 0.4000000 0.86956522
## 4 NOT_CLICKED 0.0000000 0.3000000 0.08695652
## 5 NOT_CLICKED 0.8333333 0.0666667 0.13043478
## 6 NOT_CLICKED 0.6666667 0.6000000 0.60869565
```

Decision Trees

```
#Loading libraries
library(rpart,quietly = TRUE)
library(caret,quietly = TRUE)
library(rpart.plot,quietly = TRUE)
library(rattle)

## Loading required package: bitops

##
## Attaching package: 'bitops'

## The following object is masked from 'package:Matrix':
##
##      %&%

## Rattle: A free graphical interface for data science with R.
## Version 5.5.1 Copyright (c) 2006-2021 Togaware Pty Ltd.
## Type 'rattle()' to shake, rattle, and roll your data.

##
## Attaching package: 'rattle'

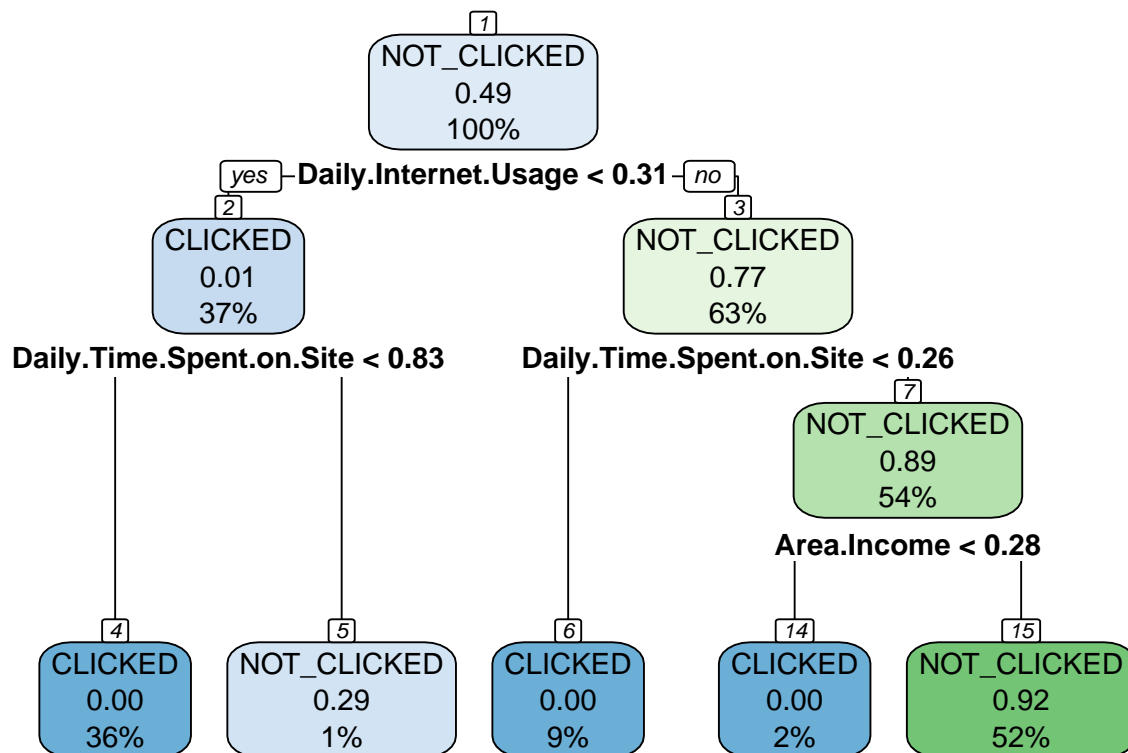
## The following object is masked from 'package:randomForest':
##
##      importance

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

#Penalty matrix
penalty.matrix <- matrix(c(0, 1, 10,0), byrow = TRUE, nrow = 2)
#Building our 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 800 411 NOT_CLICKED (0.513750000 0.486250000)
##    2) Daily.Internet.Usage< 0.312447 295 20 CLICKED (0.993220339 0.006779661)
##      4) Daily.Time.Spent.on.Site< 0.8295088 288 0 CLICKED (1.000000000 0.000000000) *
##      5) Daily.Time.Spent.on.Site>=0.8295088 7 5 NOT_CLICKED (0.714285714 0.285714286) *
##    3) Daily.Internet.Usage>=0.312447 505 118 NOT_CLICKED (0.233663366 0.766336634)
##      6) Daily.Time.Spent.on.Site< 0.2607513 71 0 CLICKED (1.000000000 0.000000000) *
##      7) Daily.Time.Spent.on.Site>=0.2607513 434 47 NOT_CLICKED (0.108294931 0.891705069)
##        14) Area.Income< 0.2793019 15 0 CLICKED (1.000000000 0.000000000) *
##        15) Area.Income>=0.2793019 419 32 NOT_CLICKED (0.076372315 0.923627685) *
```

```
#visualizing the tree
rpart.plot(tree, nn=TRUE)
```



```
#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
##           CLICKED NOT_CLICKED
##  CLICKED           80           9
##  NOT_CLICKED        1          110
##
##           Accuracy : 0.95
##           95% CI : (0.91, 0.9758)
##    No Information Rate : 0.595
##    P-Value [Acc > NIR] : < 2e-16
##
##           Kappa : 0.8979
##
##  McNemar's Test P-Value : 0.02686
##
##           Sensitivity : 0.9877
##           Specificity : 0.9244
##    Pos Pred Value : 0.8989
##    Neg Pred Value : 0.9910
##           Prevalence : 0.4050
##    Detection Rate : 0.4000
##    Detection Prevalence : 0.4450
##    Balanced Accuracy : 0.9560
##
##    'Positive' Class : CLICKED
##
```

#8. Challenging the solution

SVM

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

```
## [1] 700  9
```

```
dim(testing)
```

```
## [1] 300  9
```

```
#building our model
#
trctrl <- trainControl(method = "repeatedcv", number = 10, repeats = 3)
svm_linear <- train(Clicked.on.Ad ~., data = training, method = "svmLinear",
trControl=trctrl,
preProcess = c("center", "scale"),
tuneLength = 10)
svm_linear
```

```
## Support Vector Machines with Linear Kernel
##
## 700 samples
## 8 predictor
## 2 classes: 'CLICKED', 'NOT_CLICKED'
##
## Pre-processing: centered (8), scaled (8)
## Resampling: Cross-Validated (10 fold, repeated 3 times)
## Summary of sample sizes: 630, 630, 630, 630, 630, 630, ...
## Resampling results:
##
## Accuracy Kappa
## 0.9766667 0.9533333
##
## Tuning parameter 'C' was held constant at a value of 1
```

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

```
#checking accuracy of model
confusionMatrix(table(test_pred, testing$Clicked.on.Ad))
```

```
## Confusion Matrix and Statistics
##
##
## test_pred      CLICKED NOT_CLICKED
##  CLICKED      142         4
##  NOT_CLICKED    8        146
##
##              Accuracy : 0.96
##              95% CI : (0.9312, 0.9792)
##      No Information Rate : 0.5
##      P-Value [Acc > NIR] : <2e-16
##
##              Kappa : 0.92
##
## Mcnemar's Test P-Value : 0.3865
##
##      Sensitivity : 0.9467
##      Specificity : 0.9733
##      Pos Pred Value : 0.9726
##      Neg Pred Value : 0.9481
##      Prevalence : 0.5000
##      Detection Rate : 0.4733
##      Detection Prevalence : 0.4867
##      Balanced Accuracy : 0.9600
##
##      'Positive' Class : CLICKED
##
```

```
#Hyperparameter tuning
grid <- expand.grid(C = c(0,0.01, 0.05, 0.1, 0.25, 0.5, 0.75, 1, 1.25, 1.5, 1.75, 2,5))
svm_Linear_Grid <- train(Clicked.on.Ad ~., data = training, method = "svmLinear",
```



```
trControl=trctrl,  
preProcess = c("center", "scale"),  
tuneGrid = grid,  
tuneLength = 10)
```

```
## Warning: model fit failed for Fold01.Rep1: C=0.00 Error in .local(x, ...) :  
## No Support Vectors found. You may want to change your parameters
```

```
## Warning: model fit failed for Fold02.Rep1: C=0.00 Error in .local(x, ...) :  
## No Support Vectors found. You may want to change your parameters
```

```
## Warning: model fit failed for Fold03.Rep1: C=0.00 Error in .local(x, ...) :  
## No Support Vectors found. You may want to change your parameters
```

```
## Warning: model fit failed for Fold04.Rep1: C=0.00 Error in .local(x, ...) :  
## No Support Vectors found. You may want to change your parameters
```

```
## Warning: model fit failed for Fold05.Rep1: C=0.00 Error in .local(x, ...) :  
## No Support Vectors found. You may want to change your parameters
```

```
## Warning: model fit failed for Fold06.Rep1: C=0.00 Error in .local(x, ...) :  
## No Support Vectors found. You may want to change your parameters
```

```
## Warning: model fit failed for Fold07.Rep1: C=0.00 Error in .local(x, ...) :  
## No Support Vectors found. You may want to change your parameters
```

```
## Warning: model fit failed for Fold08.Rep1: C=0.00 Error in .local(x, ...) :  
## No Support Vectors found. You may want to change your parameters
```

```
## Warning: model fit failed for Fold09.Rep1: C=0.00 Error in .local(x, ...) :  
## No Support Vectors found. You may want to change your parameters
```

```
## Warning: model fit failed for Fold10.Rep1: C=0.00 Error in .local(x, ...) :  
## No Support Vectors found. You may want to change your parameters
```

```
## Warning: model fit failed for Fold01.Rep2: C=0.00 Error in .local(x, ...) :  
## No Support Vectors found. You may want to change your parameters
```

```
## Warning: model fit failed for Fold02.Rep2: C=0.00 Error in .local(x, ...) :  
## No Support Vectors found. You may want to change your parameters
```

```
## Warning: model fit failed for Fold03.Rep2: C=0.00 Error in .local(x, ...) :  
## No Support Vectors found. You may want to change your parameters
```

```
## Warning: model fit failed for Fold04.Rep2: C=0.00 Error in .local(x, ...) :  
## No Support Vectors found. You may want to change your parameters
```

```
## Warning: model fit failed for Fold05.Rep2: C=0.00 Error in .local(x, ...) :  
## No Support Vectors found. You may want to change your parameters
```

```

## Warning: model fit failed for Fold06.Rep2: C=0.00 Error in .local(x, ...) :
##   No Support Vectors found. You may want to change your parameters

## Warning: model fit failed for Fold07.Rep2: C=0.00 Error in .local(x, ...) :
##   No Support Vectors found. You may want to change your parameters

## Warning: model fit failed for Fold08.Rep2: C=0.00 Error in .local(x, ...) :
##   No Support Vectors found. You may want to change your parameters

## Warning: model fit failed for Fold09.Rep2: C=0.00 Error in .local(x, ...) :
##   No Support Vectors found. You may want to change your parameters

## Warning: model fit failed for Fold10.Rep2: C=0.00 Error in .local(x, ...) :
##   No Support Vectors found. You may want to change your parameters

## Warning: model fit failed for Fold01.Rep3: C=0.00 Error in .local(x, ...) :
##   No Support Vectors found. You may want to change your parameters

## Warning: model fit failed for Fold02.Rep3: C=0.00 Error in .local(x, ...) :
##   No Support Vectors found. You may want to change your parameters

## Warning: model fit failed for Fold03.Rep3: C=0.00 Error in .local(x, ...) :
##   No Support Vectors found. You may want to change your parameters

## Warning: model fit failed for Fold04.Rep3: C=0.00 Error in .local(x, ...) :
##   No Support Vectors found. You may want to change your parameters

## Warning: model fit failed for Fold05.Rep3: C=0.00 Error in .local(x, ...) :
##   No Support Vectors found. You may want to change your parameters

## Warning: model fit failed for Fold06.Rep3: C=0.00 Error in .local(x, ...) :
##   No Support Vectors found. You may want to change your parameters

## Warning: model fit failed for Fold07.Rep3: C=0.00 Error in .local(x, ...) :
##   No Support Vectors found. You may want to change your parameters

## Warning: model fit failed for Fold08.Rep3: C=0.00 Error in .local(x, ...) :
##   No Support Vectors found. You may want to change your parameters

## Warning: model fit failed for Fold09.Rep3: C=0.00 Error in .local(x, ...) :
##   No Support Vectors found. You may want to change your parameters

## Warning: model fit failed for Fold10.Rep3: C=0.00 Error in .local(x, ...) :
##   No Support Vectors found. You may want to change your parameters

## Warning in nominalTrainWorkflow(x = x, y = y, wts = weights, info = trainInfo, :
## There were missing values in resampled performance measures.

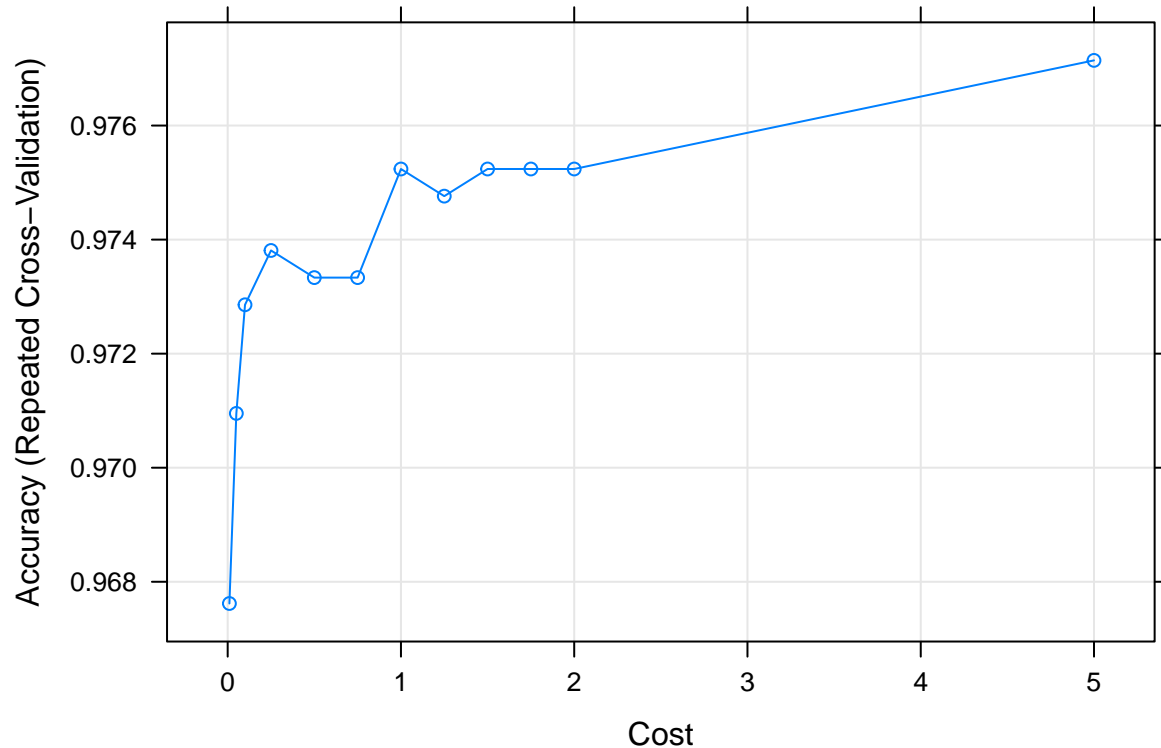
## Warning in train.default(x, y, weights = w, ...): missing values found in
## aggregated results

```

```
svm_Linear_Grid
```

```
## Support Vector Machines with Linear Kernel
##
## 700 samples
## 8 predictor
## 2 classes: 'CLICKED', 'NOT_CLICKED'
##
## Pre-processing: centered (8), scaled (8)
## Resampling: Cross-Validated (10 fold, repeated 3 times)
## Summary of sample sizes: 630, 630, 630, 630, 630, 630, ...
## Resampling results across tuning parameters:
##
##  C      Accuracy  Kappa
##  0.00      NaN      NaN
##  0.01  0.9676190  0.9352381
##  0.05  0.9709524  0.9419048
##  0.10  0.9728571  0.9457143
##  0.25  0.9738095  0.9476190
##  0.50  0.9733333  0.9466667
##  0.75  0.9733333  0.9466667
##  1.00  0.9752381  0.9504762
##  1.25  0.9747619  0.9495238
##  1.50  0.9752381  0.9504762
##  1.75  0.9752381  0.9504762
##  2.00  0.9752381  0.9504762
##  5.00  0.9771429  0.9542857
##
## Accuracy was used to select the optimal model using the largest value.
## The final value used for the model was C = 5.
```

```
plot(svm_Linear_Grid)
```



#Making predictions with the model after tuning.

```
test_pred_grid <- predict(svm_Linear_Grid, newdata = testing)
```

#checking the accuracy

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

```
## Confusion Matrix and Statistics
```

```
##
```

```
##
```

```
## test_pred_grid CLICKED NOT_CLICKED
```

```
##   CLICKED      141         4
```

```
## NOT_CLICKED     9      146
```

```
##
```

```
##           Accuracy : 0.9567
```

```
##           95% CI : (0.927, 0.9767)
```

```
## No Information Rate : 0.5
```

```
## P-Value [Acc > NIR] : <2e-16
```

```
##
```

```
##           Kappa : 0.9133
```

```
##
```

```
## McNemar's Test P-Value : 0.2673
```

```
##
```

```
##           Sensitivity : 0.9400
```

```
##           Specificity : 0.9733
```

```
## Pos Pred Value : 0.9724
```

```
##          Neg Pred Value : 0.9419
##          Prevalence : 0.5000
##          Detection Rate : 0.4700
##          Detection Prevalence : 0.4833
##          Balanced Accuracy : 0.9567
##
##          'Positive' Class : CLICKED
##
```

Conclusion

- The demographic of people who made the most clicks were above 40 and had low daily internet usage as well as daily site usage. K means Clustering is a beneficial technique when carrying out this type of prediction.
- Daily time spent on a site has a negative correlation on whether an individual clicks on an ad probably because they are already on the site and are aware of what the ad is about.
- The model created using decision trees performs slightly better with an accuracy of 95.7% than the one created using SVM which has an accuracy of 95.6%.
- Hyperparameter tuning doesn't do much in improving the svm model performance.
- We achieved our metric of success since both our models achieved an accuracy score of above 85%.

Recommendations

- Ads that are more appealing could be created so as to increase the ad clicks from men.
- We recommend the use of the SVM model in making predictions as it achieved the highest accuracy score of 95.6%.

###9. Follow up questions

###a) Did we have the right data? Yes we did. Our data set had a good number of variables that helped us study the individuals and determine who was likely to click on an ad.

###b) Do we need other data to answer our question? No, however further research is needed to help gain deeper insight on the same

###c) Did we have the right question? The question was to create a model that accurately predicted whether an individual was most likely to click on an ad. We were able to do that by analysing the given dataset o yes we did have the right question.