#Define the Question Enterprenuer with an online Crypocurrency course wants to advertise her course on the blog.Find out which audience is likely to click the link.

#Experimental design Define the question find arnomalies and outliers Perform univariate and bivariate analysis Perform factor analysis,principal comparison analysis,discriminant analysis #Challenge the solution and provide insights. We can see from our visualization that many male view the ads compared to females,The countries where outliers were found in area income are from the least earning countries.

#metric of success To do exploratory data analysis to get insights that help the advertising business emerge.

#Library installation  
  
install.packages("dplyr")

## Installing package into '/home/delilah/R/x86\_64-pc-linux-gnu-library/3.6'  
## (as 'lib' is unspecified)

library(dplyr) # data manipulation

##   
## Attaching package: 'dplyr'

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

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

#Load the dataset we are working on  
getwd()

## [1] "/home/delilah"

ads <- read.csv("advertising.csv")  
ads

## 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  
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## 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  
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## 301 69.97 28 55041.60 250.00  
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## 303 39.25 39 62378.05 152.36  
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## 305 33.52 43 42191.61 165.56  
## 306 79.81 24 56194.56 178.85  
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## 321 51.50 34 67050.16 135.31  
## 322 90.97 37 54520.14 180.77  
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## 324 66.18 35 69476.42 243.61  
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## 326 36.87 36 29398.61 195.91  
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## 331 80.71 26 58476.57 200.58  
## 332 80.09 31 66636.84 214.08  
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## 334 79.36 34 57260.41 245.78  
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## 336 38.94 41 57587.00 142.67  
## 337 87.26 35 63060.55 184.03  
## 338 75.32 28 59998.50 233.60  
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## 340 65.90 22 60550.66 211.39  
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## 348 37.87 52 56394.82 188.56  
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## 352 73.71 23 56605.12 211.38  
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## 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  
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## 387 83.49 33 66574.00 190.75  
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## 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  
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## 396 71.05 20 49544.41 204.22  
## 397 42.05 51 28357.27 174.55  
## 398 50.52 28 66929.03 219.69  
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## 400 77.29 27 66265.34 201.24  
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## 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  
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## 409 51.68 49 51067.54 258.62  
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## 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  
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## Ad.Topic.Line  
## 1 Cloned 5thgeneration orchestration  
## 2 Monitored national standardization  
## 3 Organic bottom-line service-desk  
## 4 Triple-buffered reciprocal time-frame  
## 5 Robust logistical utilization  
## 6 Sharable client-driven software  
## 7 Enhanced dedicated support  
## 8 Reactive local challenge  
## 9 Configurable coherent function  
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## 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  
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## 21 Object-based reciprocal knowledgebase  
## 22 Streamlined non-volatile analyzer  
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## 24 Future-proofed methodical protocol  
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## 31 Programmable asymmetric data-warehouse  
## 32 Digitized static capability  
## 33 Digitized global capability  
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## 42 Front-line intermediate database  
## 43 Persevering exuding system engine  
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## 54 Sharable analyzing alliance  
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## 65 Streamlined cohesive conglomeration  
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## 70 Synergized multimedia emulation  
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## 73 De-engineered object-oriented protocol  
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## 75 Customizable 6thgeneration knowledge user  
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## 77 Seamless real-time array  
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## 89 Phased dynamic customer loyalty  
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## 99 Up-sized secondary software  
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## 134 Profound zero administration instruction set  
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## 136 Enhanced system-worthy application  
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## 210 Exclusive disintermediate task-force  
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## 212 Compatible systemic function  
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## 214 Future-proofed coherent hardware  
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## 216 Front-line tangible alliance  
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## 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  
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## 225 Phased zero administration success  
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## 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  
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## 234 Synergized cohesive array  
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## 263 Managed disintermediate matrices  
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## 269 Visionary asymmetric encryption  
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## 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  
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## 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  
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## 295 Inverse next generation moratorium  
## 296 Implemented bifurcated workforce  
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## 298 Grass-roots eco-centric instruction set  
## 299 Fully-configurable incremental Graphical User Interface  
## 300 Expanded radical software  
## 301 Mandatory 3rdgeneration moderator  
## 302 Enterprise-wide foreground emulation  
## 303 Customer-focused incremental system engine  
## 304 Right-sized multi-tasking solution  
## 305 Vision-oriented optimizing middleware  
## 306 Proactive context-sensitive project  
## 307 Managed eco-centric encoding  
## 308 Visionary multi-tasking alliance  
## 309 Ameliorated tangible hierarchy  
## 310 Extended interactive model  
## 311 Universal bi-directional extranet  
## 312 Enhanced maximized access  
## 313 Upgradable even-keeled challenge  
## 314 Synchronized national infrastructure  
## 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  
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## 356 Synergized coherent interface  
## 357 Horizontal high-level concept  
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## 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  
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## 381 Integrated motivating neural-net  
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## 383 Operative scalable emulation  
## 384 Enhanced asymmetric installation  
## 385 Face-to-face reciprocal methodology  
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## 387 Polarized logistical hub  
## 388 Intuitive zero-defect framework  
## 389 Reactive composite project  
## 390 Upgradable even-keeled hardware  
## 391 Future-proofed responsive matrix  
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## 400 Grass-roots 4thgeneration forecast  
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## 405 Profound optimizing utilization  
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## 410 De-engineered actuating hierarchy  
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## 412 Inverse high-level capability  
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## 421 Re-contextualized reciprocal interface  
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## 424 User-friendly bandwidth-monitored attitude  
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## 527 Business-focused background synergy  
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## 535 Pre-emptive transitional protocol  
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## 549 Profound well-modulated array  
## 550 Multi-channeled asymmetric installation  
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## 552 Distributed cohesive migration  
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## 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  
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## 617 Team-oriented high-level orchestration  
## 618 Grass-roots empowering paradigm  
## 619 Robust object-oriented Graphic Interface  
## 620 Switchable secondary ability  
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## 622 Compatible scalable emulation  
## 623 Seamless optimal contingency  
## 624 Secured secondary superstructure  
## 625 Automated mobile model  
## 626 Re-engineered non-volatile neural-net  
## 627 Implemented disintermediate attitude  
## 628 Configurable interactive contingency  
## 629 Optimized systemic capability  
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## 633 Profit-focused systemic support  
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## 638 Secured intermediate approach  
## 639 Operative didactic Local Area Network  
## 640 Phased content-based middleware  
## 641 Triple-buffered high-level Internet solution  
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## 643 Implemented bottom-line implementation  
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## 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  
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## 656 Multi-tiered mobile encoding  
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## 667 Secured upward-trending benchmark  
## 668 Customizable value-added project  
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## 670 Reactive impactful challenge  
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## 672 Synchronized multi-tasking ability  
## 673 Fundamental clear-thinking knowledgebase  
## 674 Multi-layered user-facing parallelism  
## 675 Front-line incremental access  
## 676 Open-architected zero administration secured line  
## 677 Mandatory disintermediate info-mediaries  
## 678 Implemented context-sensitive Local Area Network  
## 679 Digitized interactive initiative  
## 680 Implemented asynchronous application  
## 681 Focused multi-state workforce  
## 682 Proactive secondary monitoring  
## 683 Front-line upward-trending groupware  
## 684 Quality-focused 5thgeneration orchestration  
## 685 Multi-layered secondary software  
## 686 Total coherent superstructure  
## 687 Monitored executive architecture  
## 688 Front-line multi-state hub  
## 689 Configurable mission-critical algorithm  
## 690 Face-to-face responsive alliance  
## 691 Reduced holistic help-desk  
## 692 Pre-emptive content-based frame  
## 693 Optional full-range projection  
## 694 Expanded value-added emulation  
## 695 Organic well-modulated database  
## 696 Organic 3rdgeneration encryption  
## 697 Stand-alone empowering benchmark  
## 698 Monitored intermediate circuit  
## 699 Object-based leadingedge complexity  
## 700 Digitized zero-defect implementation  
## 701 Configurable impactful firmware  
## 702 Face-to-face dedicated flexibility  
## 703 Fully-configurable 5thgeneration circuit  
## 704 Configurable impactful capacity  
## 705 Distributed leadingedge orchestration  
## 706 Persistent even-keeled application  
## 707 Optimized attitude-oriented initiative  
## 708 Multi-channeled 3rdgeneration model  
## 709 Polarized mission-critical structure  
## 710 Virtual executive implementation  
## 711 Enhanced intermediate standardization  
## 712 Realigned tangible collaboration  
## 713 Cloned dedicated analyzer  
## 714 Ameliorated well-modulated complexity  
## 715 Quality-focused bi-directional throughput  
## 716 Versatile solution-oriented secured line  
## 717 Phased leadingedge budgetary management  
## 718 Devolved exuding Local Area Network  
## 719 Front-line bandwidth-monitored capacity  
## 720 User-centric solution-oriented emulation  
## 721 Phased hybrid intranet  
## 722 Monitored zero administration collaboration  
## 723 Team-oriented systematic installation  
## 724 Inverse national core  
## 725 Secured uniform instruction set  
## 726 Quality-focused zero tolerance matrices  
## 727 Multi-tiered heuristic strategy  
## 728 Optimized static archive  
## 729 Advanced didactic conglomeration  
## 730 Synergistic discrete middleware  
## 731 Pre-emptive client-server installation  
## 732 Multi-channeled attitude-oriented toolset  
## 733 Decentralized 24hour approach  
## 734 Organic next generation matrix  
## 735 Multi-channeled non-volatile website  
## 736 Distributed bifurcated challenge  
## 737 Customizable zero-defect Internet solution  
## 738 Self-enabling zero administration neural-net  
## 739 Optimized upward-trending productivity  
## 740 Open-architected system-worthy ability  
## 741 Quality-focused maximized extranet  
## 742 Centralized client-driven workforce  
## 743 De-engineered intangible flexibility  
## 744 Re-engineered intangible software  
## 745 Sharable secondary Graphical User Interface  
## 746 Innovative homogeneous alliance  
## 747 Diverse leadingedge website  
## 748 Optimized intermediate help-desk  
## 749 Sharable reciprocal project  
## 750 Proactive interactive service-desk  
## 751 Open-architected needs-based customer loyalty  
## 752 Multi-lateral motivating circuit  
## 753 Assimilated encompassing portal  
## 754 Cross-group global orchestration  
## 755 Down-sized bandwidth-monitored core  
## 756 Monitored explicit hierarchy  
## 757 Reactive demand-driven strategy  
## 758 Universal empowering adapter  
## 759 Team-oriented bi-directional secured line  
## 760 Stand-alone radical throughput  
## 761 Inverse zero-defect capability  
## 762 Multi-tiered real-time implementation  
## 763 Front-line zero-defect array  
## 764 Mandatory 4thgeneration structure  
## 765 Synergistic asynchronous superstructure  
## 766 Vision-oriented system-worthy forecast  
## 767 Digitized radical architecture  
## 768 Quality-focused optimizing parallelism  
## 769 Exclusive discrete firmware  
## 770 Right-sized solution-oriented benchmark  
## 771 Assimilated stable encryption  
## 772 Configurable dynamic secured line  
## 773 Cloned optimal leverage  
## 774 Decentralized client-driven data-warehouse  
## 775 Multi-tiered interactive neural-net  
## 776 Enhanced methodical database  
## 777 Ameliorated leadingedge help-desk  
## 778 De-engineered attitude-oriented projection  
## 779 Persevering 5thgeneration knowledge user  
## 780 Extended grid-enabled hierarchy  
## 781 Reactive tangible contingency  
## 782 Decentralized attitude-oriented interface  
## 783 Mandatory coherent groupware  
## 784 Fully-configurable eco-centric frame  
## 785 Advanced disintermediate data-warehouse  
## 786 Quality-focused zero-defect data-warehouse  
## 787 Cross-group non-volatile secured line  
## 788 Expanded modular application  
## 789 Triple-buffered systematic info-mediaries  
## 790 Networked non-volatile synergy  
## 791 Fully-configurable clear-thinking throughput  
## 792 Front-line actuating functionalities  
## 793 Compatible composite project  
## 794 Customer-focused solution-oriented software  
## 795 Inverse stable synergy  
## 796 Pre-emptive well-modulated moderator  
## 797 Intuitive modular system engine  
## 798 Centralized value-added hierarchy  
## 799 Assimilated hybrid initiative  
## 800 Optimized coherent Internet solution  
## 801 Versatile 6thgeneration parallelism  
## 802 Configurable impactful productivity  
## 803 Operative full-range forecast  
## 804 Operative secondary functionalities  
## 805 Business-focused transitional solution  
## 806 Ameliorated intermediate Graphical User Interface  
## 807 Managed 24hour analyzer  
## 808 Horizontal client-server database  
## 809 Implemented didactic support  
## 810 Digitized homogeneous core  
## 811 Robust holistic application  
## 812 Synergized uniform hierarchy  
## 813 Pre-emptive client-driven secured line  
## 814 Front-line even-keeled website  
## 815 Persistent fault-tolerant service-desk  
## 816 Integrated leadingedge frame  
## 817 Ameliorated coherent open architecture  
## 818 Vision-oriented bifurcated contingency  
## 819 Up-sized maximized model  
## 820 Organized global flexibility  
## 821 Re-engineered zero-defect open architecture  
## 822 Balanced executive definition  
## 823 Networked logistical info-mediaries  
## 824 Optimized multimedia website  
## 825 Focused coherent success  
## 826 Robust context-sensitive neural-net  
## 827 Intuitive zero administration adapter  
## 828 Synchronized full-range portal  
## 829 Integrated encompassing support  
## 830 Devolved human-resource circuit  
## 831 Grass-roots transitional flexibility  
## 832 Vision-oriented methodical support  
## 833 Integrated impactful groupware  
## 834 Face-to-face methodical intranet  
## 835 Fundamental tangible moratorium  
## 836 Balanced mobile Local Area Network  
## 837 Realigned 24/7 core  
## 838 Fully-configurable high-level groupware  
## 839 Ameliorated discrete extranet  
## 840 Centralized asynchronous portal  
## 841 Enhanced tertiary utilization  
## 842 Balanced disintermediate conglomeration  
## 843 Sharable value-added solution  
## 844 Networked impactful framework  
## 845 Public-key impactful neural-net  
## 846 Innovative interactive portal  
## 847 Networked asymmetric infrastructure  
## 848 Assimilated discrete strategy  
## 849 Phased 5thgeneration open system  
## 850 Upgradable logistical flexibility  
## 851 Centralized user-facing service-desk  
## 852 Extended analyzing emulation  
## 853 Front-line methodical utilization  
## 854 Open-source scalable protocol  
## 855 Networked local secured line  
## 856 Programmable empowering orchestration  
## 857 Enhanced systemic benchmark  
## 858 Focused web-enabled Graphical User Interface  
## 859 Automated stable help-desk  
## 860 Managed national hardware  
## 861 Re-engineered composite moratorium  
## 862 Phased fault-tolerant definition  
## 863 Pre-emptive next generation Internet solution  
## 864 Reverse-engineered web-enabled support  
## 865 Horizontal intermediate monitoring  
## 866 Intuitive transitional artificial intelligence  
## 867 Business-focused asynchronous budgetary management  
## 868 Decentralized methodical capability  
## 869 Synergized intangible open system  
## 870 Stand-alone logistical service-desk  
## 871 Expanded full-range synergy  
## 872 Open-architected intangible strategy  
## 873 Diverse directional hardware  
## 874 Balanced discrete approach  
## 875 Total bi-directional success  
## 876 Object-based motivating instruction set  
## 877 Realigned intermediate application  
## 878 Sharable encompassing database  
## 879 Progressive 24/7 definition  
## 880 Pre-emptive next generation strategy  
## 881 Open-source 5thgeneration leverage  
## 882 Open-source holistic productivity  
## 883 Multi-channeled scalable moratorium  
## 884 Optional tangible productivity  
## 885 Up-sized intangible circuit  
## 886 Virtual homogeneous budgetary management  
## 887 Phased zero-defect portal  
## 888 Optional modular throughput  
## 889 Triple-buffered human-resource complexity  
## 890 Innovative cohesive pricing structure  
## 891 Function-based executive moderator  
## 892 Digitized content-based circuit  
## 893 Balanced uniform algorithm  
## 894 Triple-buffered foreground encryption  
## 895 Front-line system-worthy flexibility  
## 896 Centralized clear-thinking Graphic Interface  
## 897 Optimized 5thgeneration moratorium  
## 898 Fully-configurable asynchronous firmware  
## 899 Exclusive systematic algorithm  
## 900 Exclusive cohesive intranet  
## 901 Vision-oriented asynchronous Internet solution  
## 902 Sharable 5thgeneration access  
## 903 Monitored homogeneous artificial intelligence  
## 904 Monitored 24/7 moratorium  
## 905 Vision-oriented real-time framework  
## 906 Future-proofed stable function  
## 907 Secured encompassing Graphical User Interface  
## 908 Right-sized logistical middleware  
## 909 Team-oriented executive core  
## 910 Vision-oriented next generation solution  
## 911 Enhanced optimizing website  
## 912 Reduced background data-warehouse  
## 913 Right-sized mobile initiative  
## 914 Synergized grid-enabled framework  
## 915 Open-source stable paradigm  
## 916 Reverse-engineered context-sensitive emulation  
## 917 Public-key disintermediate emulation  
## 918 Up-sized bifurcated capability  
## 919 Stand-alone background open system  
## 920 Stand-alone explicit orchestration  
## 921 Configurable asynchronous application  
## 922 Upgradable 4thgeneration portal  
## 923 Networked client-server solution  
## 924 Public-key bi-directional Graphical User Interface  
## 925 Re-contextualized human-resource success  
## 926 Front-line fresh-thinking installation  
## 927 Balanced empowering success  
## 928 Robust uniform framework  
## 929 Sharable upward-trending support  
## 930 Assimilated multi-state paradigm  
## 931 Self-enabling local strategy  
## 932 Open-source local approach  
## 933 Polarized intangible encoding  
## 934 Multi-lateral attitude-oriented adapter  
## 935 Multi-lateral 24/7 Internet solution  
## 936 Profit-focused secondary portal  
## 937 Reactive upward-trending migration  
## 938 Customer-focused fault-tolerant implementation  
## 939 Customizable homogeneous contingency  
## 940 Versatile next generation pricing structure  
## 941 Cross-group systemic customer loyalty  
## 942 Face-to-face modular budgetary management  
## 943 Proactive non-volatile encryption  
## 944 Decentralized bottom-line help-desk  
## 945 Visionary mission-critical application  
## 946 User-centric attitude-oriented adapter  
## 947 User-centric discrete success  
## 948 Total even-keeled architecture  
## 949 Focused multimedia implementation  
## 950 Stand-alone well-modulated product  
## 951 Ameliorated bandwidth-monitored contingency  
## 952 Streamlined homogeneous analyzer  
## 953 Total coherent archive  
## 954 Front-line neutral alliance  
## 955 Virtual context-sensitive support  
## 956 Re-engineered optimal policy  
## 957 Implemented uniform synergy  
## 958 Horizontal even-keeled challenge  
## 959 Innovative regional groupware  
## 960 Exclusive multi-state Internet solution  
## 961 Mandatory empowering focus group  
## 962 Proactive 5thgeneration frame  
## 963 Automated full-range Internet solution  
## 964 Fully-configurable systemic productivity  
## 965 Multi-lateral multi-state encryption  
## 966 Intuitive global website  
## 967 Exclusive disintermediate Internet solution  
## 968 Ameliorated actuating workforce  
## 969 Synergized clear-thinking protocol  
## 970 Triple-buffered multi-state complexity  
## 971 Enhanced intangible portal  
## 972 Down-sized background groupware  
## 973 Switchable real-time product  
## 974 Ameliorated local workforce  
## 975 Streamlined exuding adapter  
## 976 Business-focused user-facing benchmark  
## 977 Reactive bi-directional standardization  
## 978 Virtual bifurcated portal  
## 979 Integrated 3rdgeneration monitoring  
## 980 Balanced responsive open system  
## 981 Focused incremental Graphic Interface  
## 982 Secured 24hour policy  
## 983 Up-sized asymmetric firmware  
## 984 Distributed fault-tolerant service-desk  
## 985 Vision-oriented human-resource synergy  
## 986 Customer-focused explicit challenge  
## 987 Synchronized human-resource moderator  
## 988 Open-architected full-range projection  
## 989 Versatile local forecast  
## 990 Ameliorated user-facing help-desk  
## 991 Enterprise-wide tangible model  
## 992 Versatile mission-critical application  
## 993 Extended leadingedge solution  
## 994 Phased zero tolerance extranet  
## 995 Front-line bifurcated ability  
## 996 Fundamental modular algorithm  
## 997 Grass-roots cohesive monitoring  
## 998 Expanded intangible solution  
## 999 Proactive bandwidth-monitored policy  
## 1000 Virtual 5thgeneration emulation  
## City 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 Shawnchester 1  
## 82 West Joseph 1  
## 83 Lake Christopherfurt 0  
## 84 East Tylershire 0  
## 85 Sharpberg 0  
## 86 Lake Dustin 0  
## 87 North Kristine 0  
## 88 Grahamberg 1  
## 89 New Tina 0  
## 90 Nelsonfurt 1  
## 91 Christopherport 0  
## 92 Port Sarahhaven 0  
## 93 Bradleyborough 1  
## 94 Whiteport 1  
## 95 New Theresa 1  
## 96 Wongland 0  
## 97 Williammouth 1  
## 98 Williamsborough 0  
## 99 North Michael 0  
## 100 Benjaminchester 1  
## 101 Hernandezville 0  
## 102 Youngburgh 1  
## 103 Wallacechester 0  
## 104 Sanchezmouth 1  
## 105 Bradshawborough 0  
## 106 Amyhaven 1  
## 107 Marcushaven 1  
## 108 Erinton 0  
## 109 Hughesport 0  
## 110 Johnstad 0  
## 111 New Lucasburgh 0  
## 112 Michelleside 1  
## 113 Andersonton 0  
## 114 New Rachel 1  
## 115 Port Susan 1  
## 116 West Angelabury 1  
## 117 Port Christopherborough 0  
## 118 Phillipsbury 1  
## 119 Millerside 0  
## 120 Lake Jessica 0  
## 121 Lopezmouth 1  
## 122 Johnsport 0  
## 123 South Ronald 0  
## 124 South Daniel 0  
## 125 Suzannetown 0  
## 126 Lisaberg 0  
## 127 Brianfurt 0  
## 128 Stewartbury 0  
## 129 Benjaminchester 0  
## 130 North Wesleychester 0  
## 131 East Michelleberg 0  
## 132 Port Eric 0  
## 133 Timothyfurt 0  
## 134 Port Jeffrey 0  
## 135 Guzmanland 0  
## 136 East Michele 1  
## 137 East John 0  
## 138 Lesliebury 1  
## 139 Patriciahaven 1  
## 140 Ashleychester 1  
## 141 Lake Josetown 0  
## 142 Debraburgh 1  
## 143 New Debbiestad 1  
## 144 West Shaun 1  
## 145 Kimberlyhaven 0  
## 146 Port Lawrence 1  
## 147 West Ricardo 1  
## 148 Lake Jose 1  
## 149 Heatherberg 0  
## 150 South George 0  
## 151 Tinachester 1  
## 152 Port Jodi 0  
## 153 Jonathantown 1  
## 154 Sylviaview 0  
## 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  
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## 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 Lisachester 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 Michaelland 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  
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## 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 Michaelland 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  
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## 619 Westshire 0  
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## 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  
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## 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  
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## 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  
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## 762 Rogerland 0  
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## 769 New Williamville 1  
## 770 Gilbertville 1  
## 771 Newmanberg 0  
## 772 West Alice 1  
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## 774 Shelbyport 1  
## 775 New Henry 0  
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## 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  
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## 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  
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## 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  
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## 889 Randyshire 1  
## 890 Philipberg 1  
## 891 West Dennis 0  
## 892 Richardshire 1  
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## 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  
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## 183 Peru 2016-05-24 13:30:38  
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## 185 Samoa 2016-06-05 13:16:24  
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## 209 Australia 2016-06-16 02:01:24  
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## 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  
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## 695 Vanuatu 2016-05-30 08:02:35  
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## 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  
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## 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  
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## 757 Sierra Leone 2016-06-10 00:35:15  
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## 765 Bosnia and Herzegovina 2016-06-29 10:50:45  
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## 769 El Salvador 2016-07-06 12:04:29  
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## 812 United States of America 2016-05-30 08:35:54  
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## 1000 1

#checking the first six rows  
head(ads)

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

#checking the datatypes  
str(ads)

## '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 : Factor w/ 1000 levels "Adaptive 24hour Graphic Interface",..: 92 465 567 904 767 806 223 724 108 455 ...  
## $ City : Factor w/ 969 levels "Adamsbury","Adamside",..: 962 904 112 940 806 283 47 672 885 713 ...  
## $ Male : int 0 1 0 1 0 1 0 1 1 1 ...  
## $ Country : Factor w/ 237 levels "Afghanistan",..: 216 148 185 104 97 159 146 13 83 79 ...  
## $ Timestamp : Factor w/ 1000 levels "2016-01-01 02:52:10",..: 440 475 368 57 768 690 131 334 549 942 ...  
## $ Clicked.on.Ad : int 0 0 0 0 0 0 0 1 0 0 ...

#checking for number of columns and rows  
colnames(ads)

## [1] "Daily.Time.Spent.on.Site" "Age"   
## [3] "Area.Income" "Daily.Internet.Usage"   
## [5] "Ad.Topic.Line" "City"   
## [7] "Male" "Country"   
## [9] "Timestamp" "Clicked.on.Ad"

#summary of dataframe  
summary(ads)

## 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   
## Adaptive 24hour Graphic Interface : 1 Lisamouth : 3   
## Adaptive asynchronous attitude : 1 Williamsport : 3   
## Adaptive context-sensitive application : 1 Benjaminchester: 2   
## Adaptive contextually-based methodology: 1 East John : 2   
## Adaptive demand-driven knowledgebase : 1 East Timothy : 2   
## Adaptive uniform capability : 1 Johnstad : 2   
## (Other) :994 (Other) :986   
## Male Country Timestamp Clicked.on.Ad  
## Min. :0.000 Czech Republic: 9 2016-01-01 02:52:10: 1 Min. :0.0   
## 1st Qu.:0.000 France : 9 2016-01-01 03:35:35: 1 1st Qu.:0.0   
## Median :0.000 Afghanistan : 8 2016-01-01 05:31:22: 1 Median :0.5   
## Mean :0.481 Australia : 8 2016-01-01 08:27:06: 1 Mean :0.5   
## 3rd Qu.:1.000 Cyprus : 8 2016-01-01 15:14:24: 1 3rd Qu.:1.0   
## Max. :1.000 Greece : 8 2016-01-01 20:17:49: 1 Max. :1.0   
## (Other) :950 (Other) :994

#check the shape of the dataset  
dim(ads)

## [1] 1000 10

#cleaning the Data now  
is.na(ads)

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## 0 0 0   
## Daily.Internet.Usage Ad.Topic.Line City   
## 0 0 0   
## Male Country Timestamp   
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## Clicked.on.Ad   
## 0

#in our dataset there are no missing values

#check for duplicated values  
duplicated(ads)

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#no duplicated values

#date time column separated  
ads$Date <- sapply(strsplit(as.character(ads$Timestamp), " "), "[", 1)  
ads$Time<- sapply(strsplit(as.character(ads$Timestamp), " "), "[", 2)

head(ads)

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

#here we change the male column to gender where 1 is male and 0 female  
names(ads)[names(ads) == "Male"] <- "Gender"  
names

## function (x) .Primitive("names")

head(ads)

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

#checking for outliers  
install.packages('colorspace')

## Installing package into '/home/delilah/R/x86\_64-pc-linux-gnu-library/3.6'  
## (as 'lib' is unspecified)

install.packages("ggplot2")

## Installing package into '/home/delilah/R/x86\_64-pc-linux-gnu-library/3.6'  
## (as 'lib' is unspecified)

library(ggplot2)  
install.packages('Rmisc', dependencies = TRUE)

## Installing package into '/home/delilah/R/x86\_64-pc-linux-gnu-library/3.6'  
## (as 'lib' is unspecified)

library(Rmisc)

## Loading required package: lattice

## Loading required package: plyr

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

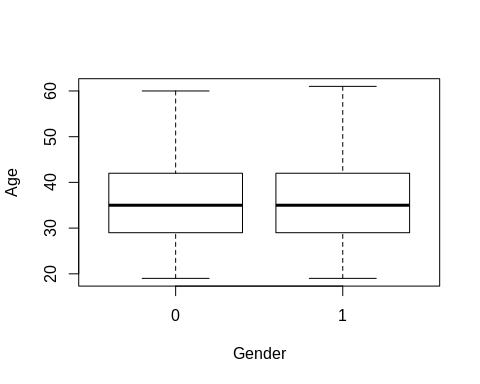
## You have loaded plyr after dplyr - this is likely to cause problems.  
## If you need functions from both plyr and dplyr, please load plyr first, then dplyr:  
## library(plyr); library(dplyr)

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

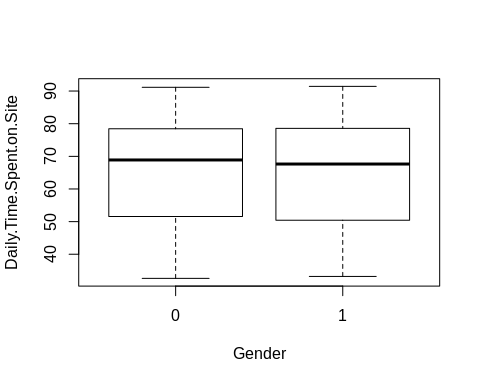
##   
## Attaching package: 'plyr'

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

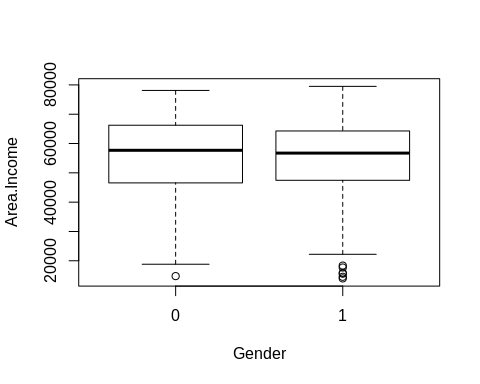
#age and gender have no outlierss  
boxplot(Age~Gender,data=ads)



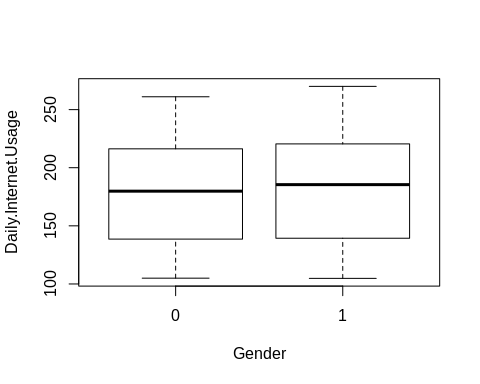
#no outliers in Daily.Time.Spent.on.Site  
boxplot(Daily.Time.Spent.on.Site~Gender,data=ads)



#area of income contains outliers  
boxplot(Area.Income~Gender,data=ads)



#daily internet usage has no outliers  
boxplot(Daily.Internet.Usage~Gender,data=ads)



#remove the outliers on Area Income  
#ads[!ads %in% boxplot.stats(ads)$out]

install.packages("ggpubr")

## Installing package into '/home/delilah/R/x86\_64-pc-linux-gnu-library/3.6'  
## (as 'lib' is unspecified)

library("ggpubr")

## Loading required package: magrittr

##   
## Attaching package: 'ggpubr'

## The following object is masked from 'package:plyr':  
##   
## mutate

#check for correlation between Male and Daily.Time.Spent.on.Site  
res <- cor.test(ads$Gender, ads$Daily.Time.Spent.on.Site,   
 method = "pearson")  
res

##   
## Pearson's product-moment correlation  
##   
## data: ads$Gender and ads$Daily.Time.Spent.on.Site  
## t = -0.59879, df = 998, p-value = 0.5495  
## alternative hypothesis: true correlation is not equal to 0  
## 95 percent confidence interval:  
## -0.08084895 0.04309285  
## sample estimates:  
## cor   
## -0.01895085

res <- cor.test(ads$Gender, ads$Area.Income,   
 method = "pearson")  
 res

##   
## Pearson's product-moment correlation  
##   
## data: ads$Gender and ads$Area.Income  
## t = 0.041775, df = 998, p-value = 0.9667  
## alternative hypothesis: true correlation is not equal to 0  
## 95 percent confidence interval:  
## -0.06067570 0.06331025  
## sample estimates:  
## cor   
## 0.001322359

#geneeral check for correlation in heatmap  
library("ggpubr")

library(RColorBrewer)  
install.packages("corrplot")

## Installing package into '/home/delilah/R/x86\_64-pc-linux-gnu-library/3.6'  
## (as 'lib' is unspecified)

library(corrplot)

## corrplot 0.84 loaded

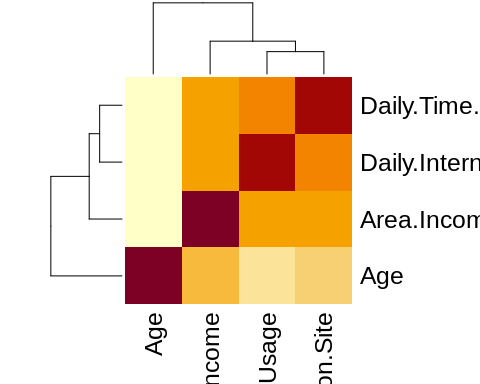
#Subsetting the numerical variables to check correlations.  
#  
num\_cols = subset(ads, select = c("Daily.Time.Spent.on.Site", "Age", "Area.Income", "Daily.Internet.Usage"))  
num\_cols

## 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  
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## 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  
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## 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  
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## 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  
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## 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  
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## 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  
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## 856 50.87 24 62939.50 190.41  
## 857 82.80 30 58776.67 223.20  
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## 859 37.65 51 50457.01 161.29  
## 860 83.17 43 54251.78 244.40  
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## 863 81.32 25 52416.18 165.65  
## 864 76.64 39 66217.31 241.50  
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## 898 77.36 41 49597.08 115.79  
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## 914 87.46 37 61009.10 211.56  
## 915 41.86 39 53041.77 128.62  
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## 937 63.18 45 39211.49 107.92  
## 938 50.60 48 65956.71 135.67  
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## 962 78.67 26 63319.99 195.56  
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## 964 60.75 42 69775.75 247.05  
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## 981 67.26 57 25682.65 168.41  
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## 991 35.79 44 33813.08 165.62  
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## 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  
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## 999 55.55 19 41920.79 187.95  
## 1000 45.01 26 29875.80 178.35

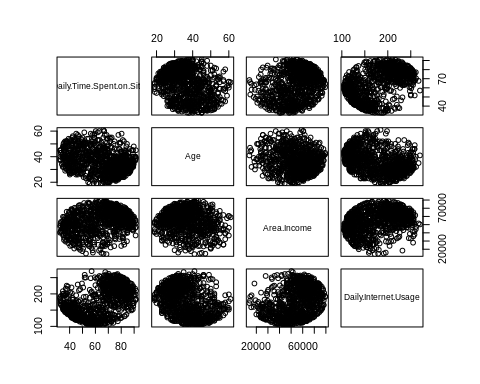
cor(num\_cols)

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

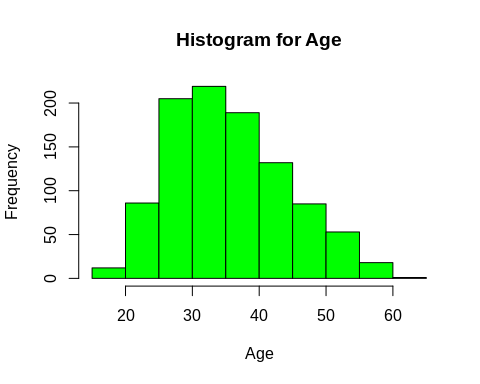
# Plotting a heatmap for the correlations.  
heatmap(cor(num\_cols))



# pairplots to check correlation of variables.  
#  
pairs(num\_cols)

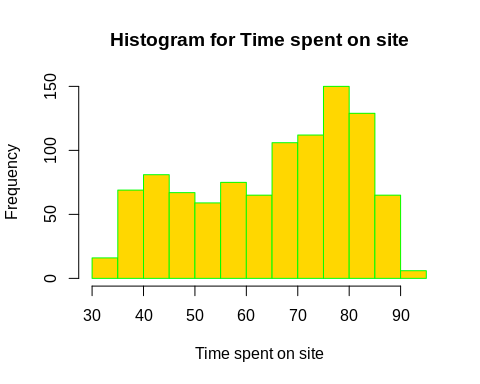
 ```

#univariate Analysis  
hist(ads$Age,   
 main="Histogram for Age",   
 xlab="Age",   
 border="black",   
 col="green")



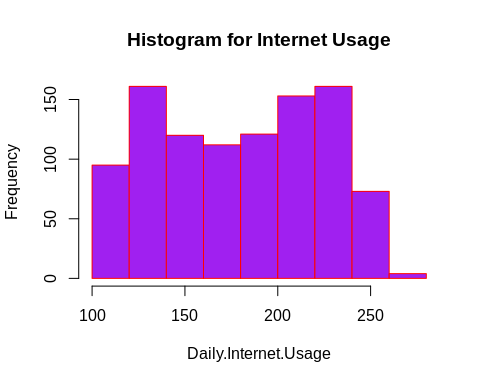
#In this plot we can see that individuals of age 30 to 40 are more in this study compared to the other ages(mostly 35)

hist(ads$Daily.Time.Spent.on.Site,   
 main="Histogram for Time spent on site",   
 xlab="Time spent on site",   
 border="green",   
 col="gold")



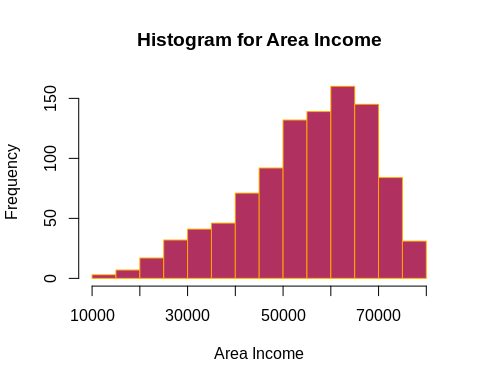
#most people spend 80 min of their time on the site

hist(ads$Daily.Internet.Usage,   
 main="Histogram for Internet Usage",   
 xlab="Daily.Internet.Usage",   
 border="red",   
 col="purple")



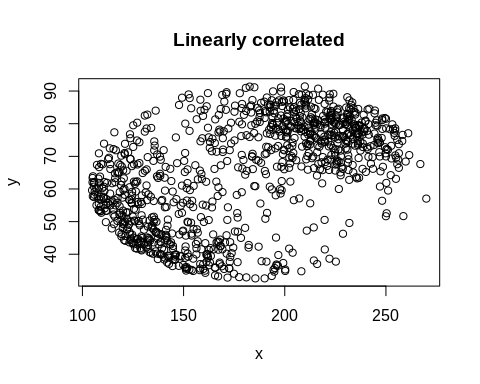
#most people use around 130 to 140 internet bundles on the site

hist(ads$Area.Income,   
 main="Histogram for Area Income",   
 xlab="Area Income",   
 border="orange",   
 col="maroon")

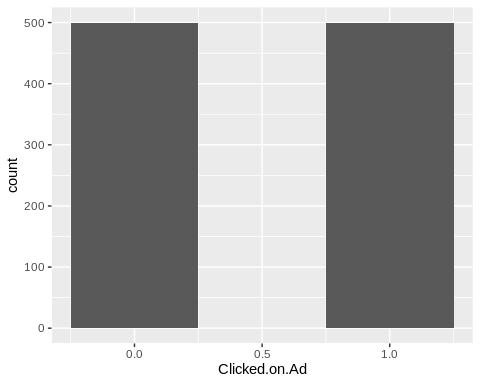


#in the area per income we can see most poeple earn 68441.85

#bivariate analysis  
plot(ads$Daily.Internet.Usage,ads$Daily.Time.Spent.on.Site,  
main="Linearly correlated",  
xlab="x",ylab="y")

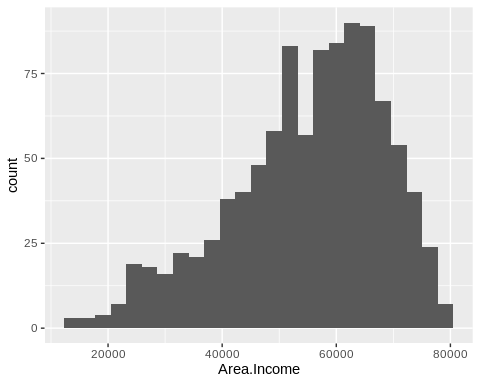


#BIVARIATE ANALYSIS  
# Analysis to see who clicked more on the ads.  
#  
df= ggplot(data = ads, aes(x = Clicked.on.Ad, fill = Gender))+  
geom\_bar(width = 0.5)  
df



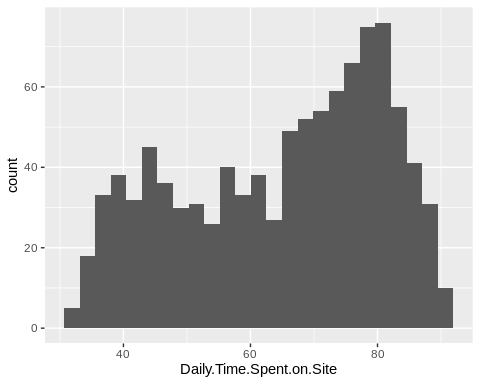
#A bit more males clicked on the ads compared to the women.

df1= ggplot(data = ads, aes(x = Area.Income, fill = Clicked.on.Ad))+  
geom\_histogram(bins = 25)  
df1



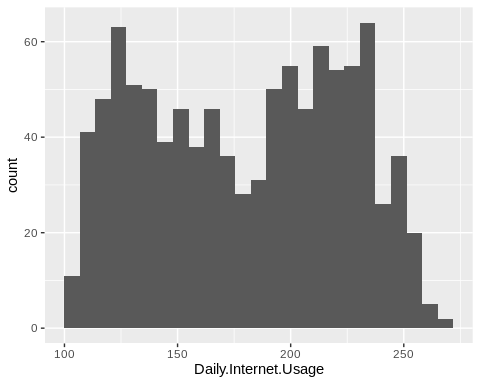
# people in the Lower income areas clicked on the Ads more.

df2= ggplot(data = ads, aes(x =Daily.Time.Spent.on.Site , fill = Clicked.on.Ad))+  
geom\_histogram(bins = 25)  
df2



#THe most time spent on the site when the add was clicked is about 80 minutes which is a lot.This means maybe the individual had time to read and was interested in the course.

df3= ggplot(data = ads, aes(x = Daily.Internet.Usage , fill = Clicked.on.Ad))+  
geom\_histogram(bins = 25)  
df3



#the average bundles people used on the site was 125 to 130 bundles.

#RECCOMMENDATION

From our analysis to target the developing countries with low income as they click more on the ads hence interest to grow there gdp using the crypocurrency course.