Getting and Cleaning Data Course Project

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Load Packages and get the Data	
<pre>packages <- c("data.table", "reshape2") sapply(packages, require, character.only = TRUE, quietly = TRUE)</pre>	
<pre>## Warning: package 'reshape2' was built under R version 4.1.2 ## ## Attaching package: 'reshape2'</pre>	
<pre>## The following objects are masked from 'package:data.table': ## ## dcast, melt</pre>	
## data.table reshape2 ## TRUE TRUE	

download.file(url, file.path(path, "dataFiles.zip"))

unzip(zipfile = "dataFiles.zip")

url <- "https://d396qusza40orc.cloudfront.net/getdata%2Fprojectfiles%2FUCI%20HAR%20Dataset.zip"

Load activity labels + features

```
activityLabels <- fread(file.path(path, "UCI HAR Dataset/activity_labels.txt")
                         , col.names = c("classLabels", "activityName"))
activityLabels
                         activityName
##
      classLabels
## 1:
                              WALKING
## 2:
                2 WALKING UPSTAIRS
## 3:
                3 WALKING DOWNSTAIRS
## 4:
                4
                              SITTING
## 5:
                5
                             STANDING
## 6:
                6
                               LAYING
features <- fread(file.path(path, "UCI HAR Dataset/features.txt")</pre>
                   , col.names = c("index", "featureNames"))
features
##
        index
                                       featureNames
                                  tBodyAcc-mean()-X
##
     1:
##
     2:
            2
                                  tBodyAcc-mean()-Y
            3
                                  tBodyAcc-mean()-Z
##
     3:
##
     4:
            4
                                   tBodyAcc-std()-X
            5
##
     5:
                                   tBodyAcc-std()-Y
##
                  angle(tBodyGyroMean,gravityMean)
## 557:
## 558:
          558 angle(tBodyGyroJerkMean,gravityMean)
## 559:
                               angle(X,gravityMean)
## 560:
          560
                               angle(Y,gravityMean)
## 561:
          561
                               angle(Z,gravityMean)
featuresWanted <- grep("(mean|std)\\(\\)", features[, featureNames])</pre>
featuresWanted
    [1]
                           5
                               6 41 42 43
                                             44 45
                                                     46
                                                           81
                                                               82 83 84 85
                                                                               86 121
## [20] 122 123 124 125 126 161 162 163 164 165 166 201 202 214 215 227 228 240 241
## [39] 253 254 266 267 268 269 270 271 345 346 347 348 349 350 424 425 426 427 428
## [58] 429 503 504 516 517 529 530 542 543
measurements <- features[featuresWanted, featureNames]</pre>
measurements <- gsub('[()]', '', measurements)</pre>
measurements
##
    [1] "tBodyAcc-mean-X"
                                     "tBodyAcc-mean-Y"
   [3] "tBodyAcc-mean-Z"
                                     "tBodyAcc-std-X"
##
                                     "tBodyAcc-std-Z"
  [5] "tBodyAcc-std-Y"
##
   [7] "tGravityAcc-mean-X"
                                     "tGravityAcc-mean-Y"
##
  [9] "tGravityAcc-mean-Z"
                                     "tGravityAcc-std-X"
## [11] "tGravityAcc-std-Y"
                                     "tGravityAcc-std-Z"
## [13] "tBodyAccJerk-mean-X"
                                     "tBodyAccJerk-mean-Y"
```

```
## [15] "tBodyAccJerk-mean-Z"
                                     "tBodyAccJerk-std-X"
  [17] "tBodyAccJerk-std-Y"
                                     "tBodyAccJerk-std-Z"
  [19] "tBodyGyro-mean-X"
                                     "tBodyGyro-mean-Y"
                                     "tBodyGyro-std-X"
  [21] "tBodyGyro-mean-Z"
  [23] "tBodyGyro-std-Y"
                                     "tBodyGyro-std-Z"
## [25] "tBodyGyroJerk-mean-X"
                                     "tBodyGyroJerk-mean-Y"
## [27] "tBodyGyroJerk-mean-Z"
                                     "tBodyGyroJerk-std-X"
## [29] "tBodyGyroJerk-std-Y"
                                     "tBodyGyroJerk-std-Z"
  [31] "tBodyAccMag-mean"
##
                                     "tBodyAccMag-std"
  [33] "tGravityAccMag-mean"
                                     "tGravityAccMag-std"
  [35] "tBodyAccJerkMag-mean"
                                     "tBodyAccJerkMag-std"
                                     "tBodyGyroMag-std"
  [37] "tBodyGyroMag-mean"
  [39] "tBodyGyroJerkMag-mean"
                                     "tBodyGyroJerkMag-std"
## [41] "fBodyAcc-mean-X"
                                     "fBodyAcc-mean-Y"
## [43] "fBodyAcc-mean-Z"
                                     "fBodyAcc-std-X"
## [45] "fBodyAcc-std-Y"
                                     "fBodyAcc-std-Z"
  [47] "fBodyAccJerk-mean-X"
                                     "fBodyAccJerk-mean-Y"
  [49] "fBodyAccJerk-mean-Z"
                                     "fBodyAccJerk-std-X"
  [51] "fBodyAccJerk-std-Y"
                                     "fBodyAccJerk-std-Z"
  [53] "fBodyGyro-mean-X"
                                     "fBodyGyro-mean-Y"
##
  [55] "fBodyGyro-mean-Z"
                                     "fBodyGyro-std-X"
  [57] "fBodyGyro-std-Y"
                                     "fBodyGyro-std-Z"
## [59] "fBodyAccMag-mean"
                                     "fBodyAccMag-std"
  [61] "fBodyBodyAccJerkMag-mean"
                                     "fBodyBodyAccJerkMag-std"
                                     "fBodyBodyGyroMag-std"
## [63] "fBodyBodyGyroMag-mean"
  [65] "fBodyBodyGyroJerkMag-mean" "fBodyBodyGyroJerkMag-std"
```

Load train datasets

```
train <- fread(file.path(path, "UCI HAR Dataset/train/X_train.txt"))[, featuresWanted, with = FALSE]</pre>
train
##
                                       VЗ
                                                  V4
     1: 0.2885845 -0.020294171 -0.13290514 -0.9952786 -0.98311061 -0.91352645
##
     2: 0.2784188 -0.016410568 -0.12352019 -0.9982453 -0.97530022 -0.96032199
##
##
     3: 0.2796531 -0.019467156 -0.11346169 -0.9953796 -0.96718701 -0.97894396
##
     4: 0.2791739 -0.026200646 -0.12328257 -0.9960915 -0.98340270 -0.99067510
##
     5: 0.2766288 -0.016569655 -0.11536185 -0.9981386 -0.98081727 -0.99048163
##
## 7348: 0.2996653 -0.057193414 -0.18123302 -0.1953865 0.03990485
                                                                 0.07707808
## 7349: 0.2738527 -0.007749326 -0.14746837 -0.2353085 0.00481628
                                                                 0.05927999
## 7350: 0.2733874 -0.017010616 -0.04502183 -0.2182182 -0.10382198
                                                                 0.27453270
  7351: 0.2896542 -0.018843044 -0.15828059 -0.2191394 -0.11141169
                                                                 0.26889320
  7352: 0.3515035 -0.012423118 -0.20386717 -0.2692704 -0.08721154
                                                                 0.17740393
##
              V41
                         V42
                                     V43
                                                V44
                                                          V45
                                                                     V46
##
     1: 0.9633961 -0.1408397
                             0.115374940 -0.9852497 -0.9817084 -0.8776250
##
     3: 0.9668781 -0.1420098 0.101883920 -0.9995740 -0.9928658 -0.9929172
##
##
     4: 0.9676152 -0.1439765 0.099850143 -0.9966456 -0.9813928 -0.9784764
##
     5: 0.9682244 -0.1487502 0.094485896 -0.9984293 -0.9880982 -0.9787449
##
```

```
## 7348: 0.9231481 -0.2220041 -0.039491660 -0.9444382 -0.8575407 -0.8674138
## 7349: 0.9183433 -0.2420535 -0.039862500 -0.9535979 -0.9291713 -0.8694935
## 7350: 0.9198095 -0.2369499 -0.026805129 -0.9784452 -0.9806060 -0.7641497
## 7351: 0.9223230 -0.2332303 -0.004983703 -0.9741122 -0.9723907 -0.8536165
  7352: 0.9187067 -0.2332916 -0.020953992 -0.9524154 -0.9678496 -0.8984653
                            V82
                                         V83
                                                              V85
                                                   V84
                                                                         V86
##
                V81
##
     1: 0.07799634 0.005000803 -0.067830808 -0.9935191 -0.9883600 -0.9935750
     2: 0.07400671 0.005771104 0.029376633 -0.9955481 -0.9810636 -0.9918457
##
##
     3: 0.07363596 0.003104037 -0.009045631 -0.9907428 -0.9809556 -0.9896866
##
     4: 0.07732061 0.020057642 -0.009864772 -0.9926974 -0.9875527 -0.9934976
     5: 0.07344436 0.019121574 0.016779979 -0.9964202 -0.9883587 -0.9924549
##
## 7348: -0.31922709 0.111397090 -0.169427540 -0.2995271 -0.3564275 -0.6506243
## 7350: 0.09654146 -0.135002530 -0.029136106 -0.3454551 -0.3781767 -0.6430245
## 7351: -0.02584867 -0.025821570 -0.032682186 -0.3871069 -0.4060632 -0.6678806
  7352: 0.07505177 0.011401085 -0.285681110 -0.3205442 -0.4693679 -0.7126710
                V121
                           V122
                                      V123
                                                 V124
                                                            V125
                                                                       V126
##
     1: -0.006100849 -0.03136479 0.10772540 -0.9853103 -0.97662344 -0.9922053
##
##
     2: -0.016111620 -0.08389378 0.10058429 -0.9831200 -0.98904580 -0.9891212
##
     3: -0.031698294 -0.10233542 0.09612688 -0.9762921 -0.99355182 -0.9863787
     4: -0.043409983 -0.09138618 0.08553770 -0.9913848 -0.99240732 -0.9875542
     5: -0.033960416 -0.07470803 0.07739203 -0.9851836 -0.99237812 -0.9874019
##
## 7348: -0.035023660 -0.09301128 0.12441230 -0.3973339 0.08487785 -0.1657174
## 7349: 0.118695630 -0.09574625 0.03327696 -0.4784581 0.09824861 -0.1884673
7351: -0.406204760  0.06879686  0.17746651  -0.5292325  0.19036009  -0.2879251
  7352: -0.041810187 -0.32250584 0.03825155 -0.4512327 0.02221634 -0.2201066
##
               V161
                           V162
                                      V163
                                                 V164
                                                           V165
                                                                      V166
##
     1: -0.09916740 -0.05551737 -0.06198580 -0.9921107 -0.9925193 -0.9920553
##
     2: -0.11050283 -0.04481873 -0.05924282 -0.9898726 -0.9972926 -0.9938510
     3: -0.10848567 -0.04241031 -0.05582883 -0.9884618 -0.9956321 -0.9915318
     4: -0.09116989 -0.03633262 -0.06046466 -0.9911194 -0.9966410 -0.9933289
##
     5: -0.09077010 -0.03763253 -0.05828932 -0.9913545 -0.9964730 -0.9945110
##
## 7348: 0.04090584 0.07815953 -0.11083806 -0.5930287 -0.6292927 -0.5840011
## 7349: -0.14406697 0.02744048 -0.14013456 -0.6320755 -0.6293634 -0.6260069
## 7350: -0.23152944 -0.07171316 -0.08098272 -0.6611103 -0.6327624 -0.5980500
## 7351: -0.07991862 -0.05814916 -0.07121785 -0.6576469 -0.6596746 -0.6020059
  7352: 0.26304757 0.09566641 -0.21579029 -0.6954549 -0.6923486 -0.6119226
                V201
                           V202
##
                                        V214
                                                   V215
                                                              V227
##
     1: -0.959433880 -0.95055150 -0.959433880 -0.95055150 -0.9933059 -0.9943364
     2: -0.979289150 -0.97605707 -0.979289150 -0.97605707 -0.9912535 -0.9916944
##
     3: -0.983703130 -0.98801962 -0.983703130 -0.98801962 -0.9885313 -0.9903969
     4: -0.986541760 -0.98642135 -0.986541760 -0.98642135 -0.9930780 -0.9933808
##
     5: -0.992827150 -0.99127536 -0.992827150 -0.99127536 -0.9934800 -0.9958537
## 7348: -0.031718539 -0.09368804 -0.031718539 -0.09368804 -0.4139201 -0.2769031
## 7349: -0.065256168 -0.14853924 -0.065256168 -0.14853924 -0.4340713 -0.3380341
## 7350: -0.003935800 -0.15870137 -0.003935800 -0.15870137 -0.4110720 -0.3780005
## 7351: -0.002445041 -0.18571989 -0.002445041 -0.18571989 -0.4448779 -0.4188038
## 7352: -0.049089815 -0.22915736 -0.049089815 -0.22915736 -0.4757782 -0.3132720
##
               V240
                           V241
                                     V253
                                                V254
                                                          V266
```

```
1: -0.96895908 -0.96433518 -0.9942478 -0.9913676 -0.9947832 -0.98298410
     2: -0.98068314 -0.98375419 -0.9951232 -0.9961016 -0.9974507 -0.97685173
##
##
     3: -0.97631707 -0.98605146 -0.9934032 -0.9950910 -0.9935941 -0.97251146
      4: -0.98205988 -0.98735112 -0.9955022 -0.9952666 -0.9954906 -0.98356972
##
##
     5: -0.98520373 -0.98906257 -0.9958076 -0.9952580 -0.9972859 -0.98230099
##
## 7348: -0.02043340 -0.11389440 -0.5938237 -0.6898059 -0.1313659 -0.08907401
## 7349: -0.02724640 -0.16531358 -0.6061105 -0.7095336 -0.1590770 -0.07905949
## 7350: 0.04288741 -0.04783646 -0.6170732 -0.6944434 -0.3457673 -0.24613490
## 7351: 0.02874038 -0.01231364 -0.6418402 -0.6927134 -0.4003685 -0.30687189
  7352: -0.10037282 -0.09570471 -0.6716245 -0.7198713 -0.2652620 -0.22038885
                          V269
                                      V270
##
              V268
                                                 V271
                                                            V345
                                                                       V346
##
     1: -0.9392687 -0.9954217 -0.98313297 -0.9061650 -0.9923325 -0.9871699
##
     2: -0.9735227 -0.9986803 -0.97492981 -0.9554381 -0.9950322 -0.9813115
     3: -0.9833040 -0.9963128 -0.96550593 -0.9770493 -0.9909937 -0.9816423
##
##
     4: -0.9910798 -0.9963121 -0.98324437 -0.9902291 -0.9944466 -0.9887272
     5: -0.9883694 -0.9986065 -0.98012947 -0.9919150 -0.9962920 -0.9887900
##
##
## 7348: -0.2567707 -0.2219892 0.03782007 0.1524447 -0.2776079 -0.3403910
## 7349: -0.2750528 -0.2674305 -0.01595056 0.1356481 -0.3526293 -0.3471167
## 7350: -0.2872700 -0.1732116 -0.09185909 0.4185680 -0.3959014 -0.3679453
## 7351: -0.3537963 -0.1581917 -0.07760596 0.4298757 -0.4701400 -0.4583053
## 7352: -0.2728009 -0.2707942 -0.08010541 0.2894096 -0.3567680 -0.4827390
               V347
                          V348
                                     V349
                                                V350
                                                           V424
##
     1: -0.9896961 -0.9958207 -0.9909363 -0.9970517 -0.9865744 -0.9817615
     2: -0.9897398 -0.9966523 -0.9820839 -0.9926268 -0.9773867 -0.9925300
     3: -0.9875663 -0.9912488 -0.9814148 -0.9904159 -0.9754332 -0.9937147
##
     4: -0.9913542 -0.9913783 -0.9869269 -0.9943908 -0.9871096 -0.9936015
     5: -0.9906244 -0.9969025 -0.9886067 -0.9929065 -0.9824465 -0.9929838
##
## 7348: -0.6054851 -0.3909422 -0.4247760 -0.6952235 -0.3342158 -0.2033015
## 7349: -0.6041097 -0.4085466 -0.4859153 -0.6778388 -0.4299594 -0.2874398
## 7350: -0.6208069 -0.3505566 -0.4370713 -0.6627493 -0.4341224 -0.3064590
## 7351: -0.6709690 -0.3579492 -0.3878953 -0.6636156 -0.5620693 -0.3752905
## 7352: -0.6849379 -0.3424707 -0.4912107 -0.7385850 -0.3472197 -0.2875120
                         V427
                                     V428
                                                V429
##
              V426
                                                            V503
                                                                       V504
##
     1: -0.9895148 -0.9850326 -0.9738861 -0.9940349 -0.95215466 -0.9561340
     2: -0.9896058 -0.9849043 -0.9871681 -0.9897847 -0.98085662 -0.9758658
##
     3: -0.9867557 -0.9766422 -0.9933990 -0.9873282 -0.98779477 -0.9890155
##
     4: -0.9871913 -0.9928104 -0.9916460 -0.9886776 -0.98751866 -0.9867420
##
     5: -0.9886664 -0.9859818 -0.9919558 -0.9879443 -0.99359085 -0.9900635
## 7348: -0.3030927 -0.4201429 0.2221261 -0.2015845 -0.09710645 -0.2325997
## 7349: -0.3096755 -0.4965887 0.2721709 -0.2266229 -0.15816072 -0.2753727
## 7350: -0.3570412 -0.3734644 0.3983264 -0.3102584 -0.29865396 -0.2202881
## 7351: -0.4111765 -0.5275530 0.4241280 -0.3169318 -0.34679483 -0.2345385
  7352: -0.3088774 -0.4847770 0.1663831 -0.2643296 -0.24003809 -0.3426704
                                     V529
##
               V516
                          V517
                                                 V530
                                                            V542
                                                                       V543
      1: -0.9937257 -0.9937550 -0.9801349 -0.96130944 -0.9919904 -0.9906975
##
      2: -0.9903355 -0.9919603 -0.9882956 -0.98332192 -0.9958539 -0.9963995
     3: -0.9892801 -0.9908667 -0.9892548 -0.98602772 -0.9950305 -0.9951274
##
##
     4: -0.9927689 -0.9916998 -0.9894128 -0.98783575 -0.9952207 -0.9952369
##
     5: -0.9955228 -0.9943890 -0.9914330 -0.98905935 -0.9950928 -0.9954648
##
```

```
## 7348: -0.2715138 -0.2875532 -0.3327526 -0.12972709 -0.6810966 -0.7239514
## 7349: -0.3530367 -0.3233721 -0.3579925 -0.18711416 -0.6827557 -0.7711831
## 7350: -0.4249092 -0.3263019 -0.3519481 -0.03229018 -0.6858515 -0.7263718
## 7351: -0.4551831 -0.3780772 -0.4150037 0.03919899 -0.7121307 -0.6894209
## 7352: -0.3379895 -0.2872274 -0.3307803 -0.10600212 -0.7155882 -0.7451204
data.table::setnames(train, colnames(train), measurements)
trainActivities <- fread(file.path(path, "UCI HAR Dataset/train/Y_train.txt")</pre>
                        , col.names = c("Activity"))
trainSubjects <- fread(file.path(path, "UCI HAR Dataset/train/subject_train.txt")</pre>
                        , col.names = c("SubjectNum"))
train <- cbind(trainSubjects, trainActivities, train)</pre>
train
##
         SubjectNum Activity tBodyAcc-mean-X tBodyAcc-mean-Y tBodyAcc-mean-Z
##
                                                 -0.020294171
                                                                  -0.13290514
                            5
                                   0.2885845
      1:
                  1
##
      2:
                  1
                           5
                                    0.2784188
                                                 -0.016410568
                                                                   -0.12352019
##
      3:
                  1
                           5
                                                                  -0.11346169
                                   0.2796531
                                                 -0.019467156
##
                                                 -0.026200646
                  1
                           5
                                   0.2791739
                                                                  -0.12328257
##
      5:
                           5
                                   0.2766288
                                                 -0.016569655
                                                                  -0.11536185
                  1
                 30
                           2
                                  0.2996653
                                               -0.057193414
                                                                  -0.18123302
## 7348:
## 7349:
                 30
                            2
                                   0.2738527
                                                 -0.007749326
                                                                   -0.14746837
## 7350:
                 30
                            2
                                   0.2733874
                                                 -0.017010616
                                                                   -0.04502183
                            2
## 7351:
                 30
                                    0.2896542
                                                 -0.018843044
                                                                   -0.15828059
## 7352:
                 30
                            2
                                                                   -0.20386717
                                    0.3515035
                                                 -0.012423118
##
         tBodyAcc-std-X tBodyAcc-std-Y tBodyAcc-std-Z tGravityAcc-mean-X
##
      1:
             -0.9952786
                           -0.98311061
                                           -0.91352645
                                                                 0.9633961
##
      2:
             -0.9982453
                           -0.97530022
                                           -0.96032199
                                                                 0.9665611
##
      3:
             -0.9953796
                           -0.96718701
                                           -0.97894396
                                                                 0.9668781
##
      4:
             -0.9960915
                           -0.98340270
                                           -0.99067510
                                                                 0.9676152
             -0.9981386
                           -0.98081727
                                           -0.99048163
      5:
                                                                 0.9682244
##
## 7348:
            -0.1953865
                           0.03990485
                                           0.07707808
                                                                 0.9231481
## 7349:
             -0.2353085
                           0.00481628
                                           0.05927999
                                                                 0.9183433
## 7350:
             -0.2182182
                           -0.10382198
                                            0.27453270
                                                                 0.9198095
## 7351:
             -0.2191394
                           -0.11141169
                                            0.26889320
                                                                 0.9223230
  7352:
             -0.2692704
                           -0.08721154
                                           0.17740393
                                                                 0.9187067
##
         tGravityAcc-mean-Y tGravityAcc-mean-Z tGravityAcc-std-X tGravityAcc-std-Y
##
                 -0.1408397
                                    0.115374940
                                                       -0.9852497
                                                                          -0.9817084
      1:
##
      2:
                 -0.1415513
                                    0.109378810
                                                       -0.9974113
                                                                          -0.9894474
##
      3:
                 -0.1420098
                                    0.101883920
                                                       -0.9995740
                                                                          -0.9928658
##
      4:
                 -0.1439765
                                    0.099850143
                                                       -0.9966456
                                                                          -0.9813928
##
                 -0.1487502
                                    0.094485896
                                                       -0.9984293
                                                                          -0.9880982
      5:
##
## 7348:
                 -0.2220041
                                   -0.039491660
                                                       -0.9444382
                                                                          -0.8575407
## 7349:
                 -0.2420535
                                   -0.039862500
                                                        -0.9535979
                                                                          -0.9291713
                                                                          -0.9806060
## 7350:
                 -0.2369499
                                   -0.026805129
                                                       -0.9784452
## 7351:
                 -0.2332303
                                   -0.004983703
                                                       -0.9741122
                                                                          -0.9723907
## 7352:
                 -0.2332916
                                   -0.020953992
                                                       -0.9524154
                                                                          -0.9678496
##
         tGravityAcc-std-Z tBodyAccJerk-mean-X tBodyAccJerk-mean-Y
##
      1:
                -0.8776250
                                     0.07799634
                                                        0.005000803
##
                -0.9316387
                                     0.07400671
                                                        0.005771104
##
                                     0.07363596
      3.
                -0.9929172
                                                        0.003104037
```

```
##
      4:
                 -0.9784764
                                      0.07732061
                                                           0.020057642
##
      5:
                 -0.9787449
                                      0.07344436
                                                           0.019121574
##
## 7348:
                                     -0.31922709
                 -0.8674138
                                                           0.111397090
  7349:
                 -0.8694935
                                      -0.42260512
                                                           0.357862360
  7350:
                 -0.7641497
##
                                      0.09654146
                                                          -0.135002530
  7351:
                 -0.8536165
                                     -0.02584867
                                                          -0.025821570
## 7352:
                 -0.8984653
                                      0.07505177
                                                           0.011401085
##
         tBodyAccJerk-mean-Z tBodyAccJerk-std-X tBodyAccJerk-std-Y
##
      1:
                 -0.067830808
                                       -0.9935191
                                                            -0.9883600
##
      2:
                  0.029376633
                                       -0.9955481
                                                            -0.9810636
##
      3:
                 -0.009045631
                                       -0.9907428
                                                            -0.9809556
##
      4:
                 -0.009864772
                                       -0.9926974
                                                            -0.9875527
##
      5:
                                       -0.9964202
                  0.016779979
                                                            -0.9883587
##
## 7348:
                 -0.169427540
                                       -0.2995271
                                                            -0.3564275
  7349:
                  0.051456001
                                       -0.3509320
                                                            -0.3862116
  7350:
                 -0.029136106
                                       -0.3454551
                                                            -0.3781767
  7351:
                                                            -0.4060632
                 -0.032682186
                                       -0.3871069
##
  7352:
                 -0.285681110
                                       -0.3205442
                                                            -0.4693679
##
         tBodyAccJerk-std-Z tBodyGyro-mean-X tBodyGyro-mean-Y tBodyGyro-mean-Z
##
                  -0.9935750
                                  -0.006100849
                                                     -0.03136479
                                                                         0.10772540
##
      2:
                  -0.9918457
                                                     -0.08389378
                                                                         0.10058429
                                  -0.016111620
                  -0.9896866
                                                     -0.10233542
                                                                         0.09612688
##
                                  -0.031698294
##
      4:
                  -0.9934976
                                  -0.043409983
                                                     -0.09138618
                                                                         0.08553770
      5:
                  -0.9924549
                                  -0.033960416
                                                     -0.07470803
                                                                         0.07739203
##
   7348:
                  -0.6506243
                                  -0.035023660
                                                     -0.09301128
                                                                         0.12441230
  7349:
                  -0.6417727
                                                     -0.09574625
                                                                         0.03327696
                                   0.118695630
## 7350:
                  -0.6430245
                                  -0.213192440
                                                      0.03932063
                                                                         0.19798185
## 7351:
                  -0.6678806
                                  -0.406204760
                                                      0.06879686
                                                                         0.17746651
##
   7352:
                  -0.7126710
                                  -0.041810187
                                                     -0.32250584
                                                                         0.03825155
##
         tBodyGyro-std-X tBodyGyro-std-Y tBodyGyro-std-Z tBodyGyroJerk-mean-X
##
               -0.9853103
                                                 -0.9922053
                               -0.97662344
                                                                       -0.09916740
      1:
##
      2:
               -0.9831200
                               -0.98904580
                                                 -0.9891212
                                                                       -0.11050283
##
      3:
              -0.9762921
                               -0.99355182
                                                 -0.9863787
                                                                       -0.10848567
##
      4:
              -0.9913848
                               -0.99240732
                                                 -0.9875542
                                                                       -0.09116989
##
      5.
              -0.9851836
                               -0.99237812
                                                 -0.9874019
                                                                       -0.09077010
##
                                0.08487785
## 7348:
              -0.3973339
                                                                        0.04090584
                                                 -0.1657174
  7349:
               -0.4784581
                                                                       -0.14406697
                                0.09824861
                                                 -0.1884673
## 7350:
               -0.3782516
                                0.18590206
                                                 -0.2699790
                                                                       -0.23152944
   7351:
               -0.5292325
                                0.19036009
                                                 -0.2879251
                                                                       -0.07991862
##
   7352:
               -0.4512327
                                0.02221634
                                                 -0.2201066
                                                                        0.26304757
##
         tBodyGyroJerk-mean-Y tBodyGyroJerk-mean-Z tBodyGyroJerk-std-X
##
      1:
                   -0.05551737
                                          -0.06198580
                                                                -0.9921107
##
      2:
                   -0.04481873
                                          -0.05924282
                                                                -0.9898726
##
      3:
                   -0.04241031
                                          -0.05582883
                                                                -0.9884618
##
      4:
                   -0.03633262
                                          -0.06046466
                                                                -0.9911194
##
      5:
                   -0.03763253
                                          -0.05828932
                                                                -0.9913545
##
## 7348:
                    0.07815953
                                          -0.11083806
                                                                -0.5930287
## 7349:
                    0.02744048
                                          -0.14013456
                                                                -0.6320755
## 7350:
                   -0.07171316
                                          -0.08098272
                                                                -0.6611103
```

```
## 7351:
                   -0.05814916
                                          -0.07121785
                                                                -0.6576469
##
  7352:
                    0.09566641
                                          -0.21579029
                                                                -0.6954549
##
         tBodyGyroJerk-std-Y tBodyGyroJerk-std-Z tBodyAccMag-mean tBodyAccMag-std
##
                   -0.9925193
                                         -0.9920553
                                                         -0.959433880
                                                                           -0.95055150
      1:
##
      2:
                   -0.9972926
                                         -0.9938510
                                                         -0.979289150
                                                                           -0.97605707
##
                   -0.9956321
                                         -0.9915318
                                                                           -0.98801962
      3:
                                                         -0.983703130
##
                   -0.9966410
      4:
                                         -0.9933289
                                                         -0.986541760
                                                                           -0.98642135
##
      5:
                   -0.9964730
                                         -0.9945110
                                                         -0.992827150
                                                                           -0.99127536
##
  7348:
                                                                           -0.09368804
##
                   -0.6292927
                                         -0.5840011
                                                         -0.031718539
   7349:
                   -0.6293634
                                         -0.6260069
                                                         -0.065256168
                                                                           -0.14853924
  7350:
                   -0.6327624
                                         -0.5980500
                                                         -0.003935800
                                                                           -0.15870137
##
##
   7351:
                   -0.6596746
                                         -0.6020059
                                                         -0.002445041
                                                                           -0.18571989
   7352:
                                                                           -0.22915736
##
                   -0.6923486
                                         -0.6119226
                                                         -0.049089815
##
         tGravityAccMag-mean tGravityAccMag-std tBodyAccJerkMag-mean
##
      1:
                 -0.959433880
                                       -0.95055150
                                                              -0.9933059
##
      2:
                 -0.979289150
                                       -0.97605707
                                                              -0.9912535
##
      3:
                 -0.983703130
                                       -0.98801962
                                                              -0.9885313
##
      4:
                                       -0.98642135
                                                              -0.9930780
                 -0.986541760
##
      5:
                 -0.992827150
                                       -0.99127536
                                                              -0.9934800
##
## 7348:
                 -0.031718539
                                       -0.09368804
                                                              -0.4139201
## 7349:
                                       -0.14853924
                                                              -0.4340713
                 -0.065256168
  7350:
                 -0.003935800
                                       -0.15870137
                                                              -0.4110720
                                       -0.18571989
## 7351:
                 -0.002445041
                                                              -0.4448779
   7352:
                 -0.049089815
                                       -0.22915736
                                                              -0.4757782
##
         tBodyAccJerkMag-std tBodyGyroMag-mean tBodyGyroMag-std
##
      1:
                   -0.9943364
                                     -0.96895908
                                                        -0.96433518
##
      2:
                   -0.9916944
                                     -0.98068314
                                                        -0.98375419
##
      3:
                   -0.9903969
                                     -0.97631707
                                                        -0.98605146
##
      4:
                   -0.9933808
                                     -0.98205988
                                                        -0.98735112
##
      5:
                   -0.9958537
                                     -0.98520373
                                                        -0.98906257
##
## 7348:
                   -0.2769031
                                     -0.02043340
                                                        -0.11389440
  7349:
                   -0.3380341
                                     -0.02724640
                                                        -0.16531358
##
  7350:
                   -0.3780005
                                      0.04288741
                                                        -0.04783646
## 7351:
                   -0.4188038
                                      0.02874038
                                                        -0.01231364
##
  7352:
                   -0.3132720
                                     -0.10037282
                                                        -0.09570471
##
         tBodyGyroJerkMag-mean tBodyGyroJerkMag-std fBodyAcc-mean-X
##
      1:
                     -0.9942478
                                            -0.9913676
                                                             -0.9947832
##
      2:
                     -0.9951232
                                            -0.9961016
                                                             -0.9974507
##
      3:
                     -0.9934032
                                            -0.9950910
                                                             -0.9935941
##
      4.
                     -0.9955022
                                            -0.9952666
                                                             -0.9954906
##
      5:
                     -0.9958076
                                            -0.9952580
                                                             -0.9972859
##
## 7348:
                     -0.5938237
                                            -0.6898059
                                                             -0.1313659
   7349:
                     -0.6061105
                                            -0.7095336
                                                             -0.1590770
  7350:
                     -0.6170732
                                            -0.6944434
                                                             -0.3457673
##
  7351:
                     -0.6418402
                                            -0.6927134
                                                             -0.4003685
   7352:
##
                     -0.6716245
                                            -0.7198713
                                                             -0.2652620
##
         fBodyAcc-mean-Y fBodyAcc-mean-Z fBodyAcc-std-X fBodyAcc-std-Y
##
      1:
             -0.98298410
                                -0.9392687
                                                -0.9954217
                                                               -0.98313297
##
      2:
             -0.97685173
                                -0.9735227
                                                -0.9986803
                                                               -0.97492981
##
             -0.97251146
                                -0.9833040
                                                -0.9963128
                                                               -0.96550593
```

```
##
      4:
             -0.98356972
                                -0.9910798
                                               -0.9963121
                                                               -0.98324437
##
             -0.98230099
                                -0.9883694
                                               -0.9986065
                                                              -0.98012947
      5:
##
                                               -0.2219892
## 7348:
             -0.08907401
                                -0.2567707
                                                               0.03782007
## 7349:
             -0.07905949
                                -0.2750528
                                               -0.2674305
                                                               -0.01595056
## 7350:
             -0.24613490
                                -0.2872700
                                               -0.1732116
                                                              -0.09185909
## 7351:
             -0.30687189
                                -0.3537963
                                               -0.1581917
                                                              -0.07760596
## 7352:
             -0.22038885
                                -0.2728009
                                                -0.2707942
                                                              -0.08010541
##
         fBodyAcc-std-Z fBodyAccJerk-mean-X fBodyAccJerk-mean-Y
##
      1:
             -0.9061650
                                   -0.9923325
                                                        -0.9871699
##
      2:
             -0.9554381
                                   -0.9950322
                                                        -0.9813115
##
             -0.9770493
                                   -0.9909937
                                                        -0.9816423
      3:
##
      4:
             -0.9902291
                                   -0.9944466
                                                        -0.9887272
      5:
##
             -0.9919150
                                   -0.9962920
                                                        -0.9887900
##
## 7348:
              0.1524447
                                   -0.2776079
                                                        -0.3403910
## 7349:
              0.1356481
                                   -0.3526293
                                                        -0.3471167
## 7350:
               0.4185680
                                   -0.3959014
                                                        -0.3679453
## 7351:
              0.4298757
                                   -0.4701400
                                                        -0.4583053
##
  7352:
               0.2894096
                                   -0.3567680
                                                        -0.4827390
##
         fBodyAccJerk-mean-Z fBodyAccJerk-std-X fBodyAccJerk-std-Y
##
                   -0.9896961
                                       -0.9958207
                                                           -0.9909363
##
      2:
                   -0.9897398
                                       -0.9966523
                                                           -0.9820839
                                                           -0.9814148
##
                   -0.9875663
                                       -0.9912488
##
      4.
                   -0.9913542
                                       -0.9913783
                                                           -0.9869269
      5:
                   -0.9906244
                                       -0.9969025
                                                           -0.9886067
##
## 7348:
                   -0.6054851
                                       -0.3909422
                                                           -0.4247760
## 7349:
                   -0.6041097
                                       -0.4085466
                                                           -0.4859153
## 7350:
                   -0.6208069
                                       -0.3505566
                                                           -0.4370713
## 7351:
                   -0.6709690
                                       -0.3579492
                                                           -0.3878953
                   -0.6849379
##
  7352:
                                       -0.3424707
                                                           -0.4912107
##
         fBodyAccJerk-std-Z fBodyGyro-mean-X fBodyGyro-mean-Y fBodyGyro-mean-Z
##
                  -0.9970517
                                    -0.9865744
                                                      -0.9817615
                                                                        -0.9895148
      1:
##
      2:
                  -0.9926268
                                    -0.9773867
                                                      -0.9925300
                                                                        -0.9896058
##
      3:
                  -0.9904159
                                    -0.9754332
                                                      -0.9937147
                                                                        -0.9867557
##
      4:
                  -0.9943908
                                    -0.9871096
                                                      -0.9936015
                                                                        -0.9871913
##
      5.
                  -0.9929065
                                    -0.9824465
                                                      -0.9929838
                                                                        -0.9886664
##
                                    -0.3342158
                                                                        -0.3030927
                  -0.6952235
                                                      -0.2033015
## 7348:
## 7349:
                  -0.6778388
                                    -0.4299594
                                                      -0.2874398
                                                                        -0.3096755
## 7350:
                  -0.6627493
                                    -0.4341224
                                                      -0.3064590
                                                                        -0.3570412
  7351:
                  -0.6636156
                                    -0.5620693
                                                      -0.3752905
                                                                        -0.4111765
  7352:
                                                                        -0.3088774
##
                  -0.7385850
                                    -0.3472197
                                                      -0.2875120
##
         fBodyGyro-std-X fBodyGyro-std-Y fBodyGyro-std-Z fBodyAccMag-mean
##
              -0.9850326
                                -0.9738861
                                                 -0.9940349
      1:
                                                                  -0.95215466
##
      2:
              -0.9849043
                                -0.9871681
                                                 -0.9897847
                                                                  -0.98085662
##
      3:
              -0.9766422
                                -0.9933990
                                                 -0.9873282
                                                                  -0.98779477
                                -0.9916460
##
      4:
              -0.9928104
                                                 -0.9886776
                                                                  -0.98751866
##
      5:
              -0.9859818
                                -0.9919558
                                                 -0.9879443
                                                                  -0.99359085
##
## 7348:
              -0.4201429
                                0.2221261
                                                 -0.2015845
                                                                 -0.09710645
## 7349:
              -0.4965887
                                0.2721709
                                                 -0.2266229
                                                                  -0.15816072
## 7350:
              -0.3734644
                                0.3983264
                                                 -0.3102584
                                                                  -0.29865396
```

```
## 7351:
              -0.5275530
                                0.4241280
                                                -0.3169318
                                                                  -0.34679483
## 7352:
              -0.4847770
                                 0.1663831
                                                -0.2643296
                                                                  -0.24003809
##
         fBodyAccMag-std fBodyBodyAccJerkMag-mean fBodyBodyAccJerkMag-std
##
              -0.9561340
                                         -0.9937257
                                                                   -0.9937550
##
      2:
              -0.9758658
                                         -0.9903355
                                                                   -0.9919603
##
              -0.9890155
                                         -0.9892801
                                                                   -0.9908667
      3:
##
      4:
              -0.9867420
                                         -0.9927689
                                                                   -0.9916998
              -0.9900635
                                         -0.9955228
                                                                   -0.9943890
##
      5:
##
              -0.2325997
                                         -0.2715138
                                                                   -0.2875532
## 7348:
## 7349:
              -0.2753727
                                         -0.3530367
                                                                   -0.3233721
              -0.2202881
                                         -0.4249092
## 7350:
                                                                   -0.3263019
## 7351:
              -0.2345385
                                         -0.4551831
                                                                   -0.3780772
## 7352:
              -0.3426704
                                         -0.3379895
                                                                   -0.2872274
##
         \verb|fBodyBodyGyroMag-mean| fBodyBodyGyroMag-std| fBodyBodyGyroJerkMag-mean|
##
      1:
                     -0.9801349
                                          -0.96130944
                                                                       -0.9919904
##
      2:
                     -0.9882956
                                                                       -0.9958539
                                          -0.98332192
##
      3:
                     -0.9892548
                                          -0.98602772
                                                                       -0.9950305
##
      4:
                     -0.9894128
                                          -0.98783575
                                                                       -0.9952207
##
      5:
                     -0.9914330
                                          -0.98905935
                                                                       -0.9950928
##
## 7348:
                     -0.3327526
                                          -0.12972709
                                                                       -0.6810966
## 7349:
                     -0.3579925
                                          -0.18711416
                                                                       -0.6827557
## 7350:
                     -0.3519481
                                          -0.03229018
                                                                       -0.6858515
## 7351:
                     -0.4150037
                                                                      -0.7121307
                                          0.03919899
## 7352:
                     -0.3307803
                                          -0.10600212
                                                                       -0.7155882
##
         fBodyBodyGyroJerkMag-std
                        -0.9906975
##
      1:
##
      2:
                        -0.9963995
##
      3:
                        -0.9951274
##
      4:
                        -0.9952369
##
      5:
                        -0.9954648
##
## 7348:
                        -0.7239514
## 7349:
                        -0.7711831
## 7350:
                        -0.7263718
## 7351:
                        -0.6894209
## 7352:
                        -0.7451204
```

Load test datasets

```
test <- fread(file.path(path, "UCI HAR Dataset/test/X_test.txt"))[, featuresWanted, with = FALSE]</pre>
test
##
                V1
                                                    ٧4
                                                                 V5
                                                                            V6
                             ٧2
                                         V3
##
      1: 0.2571778 -0.02328523 -0.01465376 -0.9384040 -0.92009078 -0.6676833
##
      2: 0.2860267 -0.01316336 -0.11908252 -0.9754147 -0.96745790 -0.9449582
##
      3: 0.2754848 -0.02605042 -0.11815167 -0.9938190 -0.96992551 -0.9627480
      4: 0.2702982 -0.03261387 -0.11752018 -0.9947428 -0.97326761 -0.9670907
##
##
      5: 0.2748330 -0.02784779 -0.12952716 -0.9938525 -0.96744548 -0.9782950
##
```

```
## 2943: 0.3101546 -0.05339125 -0.09910872 -0.2878663 -0.14058918 -0.2150877
## 2944: 0.3633846 -0.03921402 -0.10591509 -0.3053880 0.02814774 -0.1963729
## 2945: 0.3499661 0.03007744 -0.11578796 -0.3296381 -0.04214289 -0.2501807
## 2947: 0.1536272 -0.01843651 -0.13701846 -0.3300460 -0.19525335 -0.1643388
             V41
                       V42
                                V43
                                                    V45
                                          V44
##
     1: 0.9364893 -0.2827192 0.1152882 -0.9254273 -0.9370141 -0.5642884
##
     2: 0.9274036 -0.2892151 0.1525683 -0.9890571 -0.9838872 -0.9647811
##
     3: 0.9299150 -0.2875128 0.1460856 -0.9959365 -0.9882505 -0.9815796
##
     4: 0.9288814 -0.2933958 0.1429259 -0.9931392 -0.9704192 -0.9915917
     5: 0.9265997 -0.3029609 0.1383067 -0.9955746 -0.9709604 -0.9680853
##
## 2943: 0.8909677 -0.2767180 -0.2315935 -0.9807982 -0.9203893 -0.9494664
## 2944: 0.8912809 -0.2749762 -0.2280502 -0.9817830 -0.9295222 -0.9346775
## 2945: 0.8908972 -0.2761645 -0.2262558 -0.9828841 -0.9333010 -0.9400140
## 2946: 0.8927357 -0.2623564 -0.2351080 -0.9859829 -0.9621989 -0.9489939
  2947: 0.8943309 -0.2614073 -0.2361121 -0.9847364 -0.9645770 -0.9623691
               V81
                          V82
                                      V83
                                                V84
                                                         V85
     1: 0.07204601 0.045754401 -0.106042660 -0.9066828 -0.9380164 -0.9359358
##
##
        0.07018069 -0.017876016 -0.001720629 -0.9492040 -0.9726989 -0.9777267
##
     3: 0.06936778 -0.004908146 -0.013672983 -0.9910699 -0.9714041 -0.9728674
     4: 0.07485289 0.032274322 0.012141275 -0.9908016 -0.9728957 -0.9759253
     5: 0.07837679 0.022276764 0.002748499 -0.9920724 -0.9786700 -0.9866120
##
## 2943: -0.08800546 -0.231491610 0.036014732 -0.4167254 -0.5212051 -0.5431463
## 2944: 0.14876453 -0.344464440 -0.131282100 -0.3620992 -0.4023177 -0.5291683
## 2945: 0.04632680 -0.174973600 0.200841960 -0.3893490 -0.4320439 -0.5453444
## 2946: 0.33455894 -0.059122249 0.020024236 -0.4418078 -0.5788833 -0.4903575
## 2947: 0.22380428 0.256686870 0.012817095 -0.4790768 -0.5687591 -0.4170744
##
               V121
                         V122
                                   V123
                                             V124
                                                       V125
                                                                 V126
##
     1: 0.119976160 -0.09179234 0.18962854 -0.8830891 -0.8161636 -0.9408812
##
     2: -0.001552463 -0.18729119 0.18070522 -0.9255665 -0.9295992 -0.9675810
     3: -0.048212671 -0.16627974 0.15417437 -0.9729882 -0.9785106 -0.9756483
     4: -0.056641577 -0.12601846 0.11833718 -0.9677905 -0.9751338 -0.9632327
##
     5: -0.059992128 -0.08472343 0.07865926 -0.9746560 -0.9779511 -0.9676287
##
##
## 2944: 0.062107316 -0.04315641 0.11359406 -0.4640369 -0.5181490 -0.1396287
## 2945: -0.123715000 0.08631957 0.26142304 -0.4219774 -0.5570594 -0.1975039
2947: -0.208229480 -0.03865400 0.24610106 -0.6166534 -0.5085570 -0.3138543
##
              V161
                         V162
                                     V163
                                               V164
                                                         V165
                                                                  V166
##
     1: -0.20489621 -0.174487710 -0.093389340 -0.9012242 -0.9108601 -0.9392504
     2: -0.13866849 -0.025802071 -0.071418405 -0.9623042 -0.9562894 -0.9813408
##
     3: -0.09780967 -0.034213274 -0.060028399 -0.9841669 -0.9879399 -0.9761876
     4: -0.10223178 -0.044713461 -0.053436499 -0.9841709 -0.9895542 -0.9807240
##
     5: -0.09184994 -0.029005022 -0.061235354 -0.9884738 -0.9918773 -0.9819836
## 2943: 0.13828793 -0.005041591 -0.279400710 -0.6646345 -0.6049332 -0.6670702
## 2945: -0.36210021 -0.303347310 0.172746460 -0.6124836 -0.6281620 -0.6161555
## 2946: -0.05582278 -0.103685680 0.314818590 -0.7150106 -0.6623249 -0.7009483
##
             V201
                       V202
                                V214
                                          V215
                                                    V227
                                                              V228
```

```
1: -0.8669294 -0.7051911 -0.8669294 -0.7051911 -0.9297665 -0.8959942
     2: -0.9689614 -0.9539024 -0.9689614 -0.9539024 -0.9737168 -0.9410078
##
##
     3: -0.9762282 -0.9790834 -0.9762282 -0.9790834 -0.9816177 -0.9713710
      4: -0.9743245 -0.9770159 -0.9743245 -0.9770159 -0.9827121 -0.9748075
##
##
     5: -0.9758356 -0.9768934 -0.9758356 -0.9768934 -0.9869079 -0.9888539
##
## 2943: -0.2008855 -0.2343877 -0.2008855 -0.2343877 -0.4559232 -0.4126706
## 2944: -0.1705631 -0.1986268 -0.1705631 -0.1986268 -0.4257498 -0.2880653
## 2945: -0.2076032 -0.2523881 -0.2076032 -0.2523881 -0.4632321 -0.2923697
## 2946: -0.2338657 -0.2927046 -0.2338657 -0.2927046 -0.4864946 -0.3621037
  2947: -0.2243090 -0.2624866 -0.2243090 -0.2624866 -0.4624043 -0.3710656
                                     V253
              V240
                          V241
                                                V254
                                                           V266
                                                                       V267
##
     1: -0.7955439 -0.7620732 -0.9251949 -0.8943436 -0.9185097 -0.91821319
##
     2: -0.8984331 -0.9108583 -0.9733934 -0.9440900 -0.9609030 -0.96443332
     3: -0.9391936 -0.9717763 -0.9867480 -0.9844015 -0.9919063 -0.96503362
##
     4: -0.9471844 -0.9703682 -0.9888204 -0.9855681 -0.9930298 -0.96828390
     5: -0.9574192 -0.9694995 -0.9900621 -0.9904189 -0.9924042 -0.96920715
##
##
## 2943: -0.3937639 -0.4789186 -0.6494828 -0.5967016 -0.3355388 -0.23387059
## 2944: -0.3031531 -0.4765808 -0.6322312 -0.5643632 -0.2504241 -0.06012332
## 2945: -0.2886459 -0.5303024 -0.6497476 -0.5915989 -0.3626403 -0.18680220
## 2946: -0.3789522 -0.5472317 -0.6966865 -0.6583167 -0.3783654 -0.40006993
## 2947: -0.4085228 -0.4939524 -0.6682140 -0.6083416 -0.4012226 -0.31841507
               V268
                          V269
                                       V270
                                                  V271
                                                             V345
##
     1: -0.7890915 -0.9482903 -0.925136870 -0.6363167 -0.8996332 -0.9374850
     2: -0.9566748 -0.9843500 -0.970174760 -0.9418619 -0.9435190 -0.9691623
     3: -0.9668996 -0.9947537 -0.973695850 -0.9622866 -0.9910295 -0.9733689
##
     4: -0.9669116 -0.9955936 -0.976917560 -0.9689579 -0.9905362 -0.9724525
      5: -0.9796527 -0.9945037 -0.967468110 -0.9782399 -0.9914800 -0.9798346
##
## 2943: -0.3286207 -0.2698271 -0.148105510 -0.2157249 -0.4508228 -0.5439906
## 2944: -0.2756377 -0.3282253 0.008056758 -0.2160092 -0.3177561 -0.4116971
## 2945: -0.2711378 -0.3169726 -0.032618899 -0.2982284 -0.3899408 -0.4348765
## 2946: -0.2823201 -0.3024231 -0.199957890 -0.2287489 -0.4261218 -0.5838392
## 2947: -0.2221230 -0.3038541 -0.186334520 -0.1982265 -0.5238330 -0.5971720
                                     V349
                                                V350
##
              V347
                          V348
                                                           V424
                                                                      V425
##
     1: -0.9235514 -0.9244291 -0.9432104 -0.9478915 -0.8235579 -0.8079160
     2: -0.9734489 -0.9616312 -0.9800263 -0.9807873 -0.9225130 -0.9264957
##
     3: -0.9717030 -0.9919122 -0.9709857 -0.9723222 -0.9728456 -0.9808333
##
##
     4: -0.9703374 -0.9919600 -0.9754341 -0.9806211 -0.9715016 -0.9813450
     5: -0.9834930 -0.9935709 -0.9786966 -0.9885033 -0.9764045 -0.9804043
## 2943: -0.4988520 -0.4323739 -0.5280954 -0.5854999 -0.4763887 -0.5218199
## 2944: -0.4947402 -0.4780054 -0.4339487 -0.5609813 -0.4319631 -0.4920759
## 2945: -0.4448655 -0.4448027 -0.4698176 -0.6572389 -0.2914094 -0.5179180
## 2946: -0.4391983 -0.5122416 -0.6030957 -0.5396678 -0.6278853 -0.5434641
## 2947: -0.3568914 -0.4784920 -0.5659273 -0.4752730 -0.5689044 -0.5114901
##
               V426
                          V427
                                     V428
                                                V429
                                                           V503
##
      1: -0.9179126 -0.9032627 -0.8226770 -0.9561651 -0.7909464 -0.7110740
##
      2: -0.9682295 -0.9270506 -0.9320107 -0.9701434 -0.9541266 -0.9597458
     3: -0.9720602 -0.9731979 -0.9771945 -0.9790953 -0.9756497 -0.9837843
##
##
     4: -0.9667055 -0.9671856 -0.9719094 -0.9652755 -0.9733931 -0.9821196
##
     5: -0.9687820 -0.9743979 -0.9765654 -0.9700165 -0.9777390 -0.9788381
##
```

```
## 2943: -0.3426978 -0.5904839 -0.5333008 -0.2985052 -0.2731909 -0.3321409
## 2944: -0.3281087 -0.4781497 -0.5383805 -0.1648946 -0.2094867 -0.3169538
## 2945: -0.3063887 -0.4635660 -0.5861540 -0.2381669 -0.2366061 -0.3772403
## 2946: -0.3680427 -0.6817483 -0.5656499 -0.3944327 -0.3147630 -0.3902011
## 2947: -0.4532693 -0.6331353 -0.5101592 -0.3365837 -0.2884126 -0.3625984
                                     V529
                                                 V530
                                                            V542
##
               V516
                          V517
      1: -0.8950612 -0.8963596 -0.7706100 -0.7971128 -0.8901655 -0.9073076
      2: -0.9454372 -0.9341520 -0.9244608 -0.9167741 -0.9519774 -0.9382124
##
##
      3: -0.9710690 -0.9703078 -0.9752095 -0.9739984 -0.9856888 -0.9832727
##
      4: -0.9716545 -0.9784844 -0.9762973 -0.9712482 -0.9855619 -0.9858429
      5: -0.9874888 -0.9897160 -0.9770070 -0.9696193 -0.9904980 -0.9905719
##
## 2943: -0.4221715 -0.4034507 -0.4778440 -0.5712343 -0.6014236 -0.6188288
## 2944: -0.2652178 -0.3222741 -0.4918547 -0.5565773 -0.5663438 -0.5925070
## 2945: -0.2474406 -0.3589800 -0.6012827 -0.5633274 -0.5923314 -0.6179484
## 2946: -0.3486653 -0.3832820 -0.6385545 -0.5659171 -0.6797106 -0.6549599
## 2947: -0.3651578 -0.3823873 -0.5186400 -0.5639466 -0.6159911 -0.6252073
data.table::setnames(test, colnames(test), measurements)
testActivities <- fread(file.path(path, "UCI HAR Dataset/test/Y_test.txt")
                        , col.names = c("Activity"))
testSubjects <- fread(file.path(path, "UCI HAR Dataset/test/subject_test.txt")</pre>
                      , col.names = c("SubjectNum"))
test <- cbind(testSubjects, testActivities, test)</pre>
##
         SubjectNum Activity tBodyAcc-mean-X tBodyAcc-mean-Y tBodyAcc-mean-Z
##
      1:
                  2
                           5
                                   0.2571778
                                                 -0.02328523
                                                                  -0.01465376
##
      2:
                  2
                           5
                                   0.2860267
                                                 -0.01316336
                                                                  -0.11908252
                  2
                           5
##
      3:
                                   0.2754848
                                                 -0.02605042
                                                                  -0.11815167
##
      4:
                  2
                           5
                                   0.2702982
                                                 -0.03261387
                                                                  -0.11752018
                  2
                           5
                                   0.2748330
                                                 -0.02784779
                                                                  -0.12952716
##
      5:
##
                           2
## 2943:
                 24
                                  0.3101546
                                                 -0.05339125
                                                                  -0.09910872
## 2944:
                 24
                           2
                                                 -0.03921402
                                                                  -0.10591509
                                   0.3633846
## 2945:
                 24
                           2
                                   0.3499661
                                                  0.03007744
                                                                  -0.11578796
                 24
                           2
## 2946:
                                   0.2375938
                                                  0.01846687
                                                                  -0.09649893
## 2947:
                 24
                           2
                                   0.1536272
                                                 -0.01843651
                                                                  -0.13701846
##
         tBodyAcc-std-X tBodyAcc-std-Y tBodyAcc-std-Z tGravityAcc-mean-X
##
            -0.9384040
                           -0.92009078
                                           -0.6676833
                                                                0.9364893
      1:
##
      2:
            -0.9754147
                           -0.96745790
                                           -0.9449582
                                                                0.9274036
##
      3:
            -0.9938190
                           -0.96992551
                                           -0.9627480
                                                                0.9299150
            -0.9947428
##
      4:
                           -0.97326761
                                           -0.9670907
                                                                0.9288814
##
      5:
            -0.9938525
                           -0.96744548
                                           -0.9782950
                                                                0.9265997
##
                           -0.14058918
## 2943:
            -0.2878663
                                           -0.2150877
                                                                0.8909677
## 2944:
             -0.3053880
                            0.02814774
                                            -0.1963729
                                                                0.8912809
                                           -0.2501807
## 2945:
             -0.3296381
                           -0.04214289
                                                                0.8908972
## 2946:
             -0.3231143
                           -0.22977539
                                            -0.2075736
                                                                0.8927357
                           -0.19525335
## 2947:
             -0.3300460
                                           -0.1643388
                                                                0.8943309
##
         tGravityAcc-mean-Y tGravityAcc-mean-Z tGravityAcc-std-X tGravityAcc-std-Y
##
      1:
                 -0.2827192
                                    0.1152882
                                                      -0.9254273
                                                                         -0.9370141
##
                 -0.2892151
                                     0.1525683
                                                      -0.9890571
                                                                         -0.9838872
                                     0.1460856
##
                 -0.2875128
                                                      -0.9959365
                                                                         -0.9882505
```

```
##
      4:
                  -0.2933958
                                       0.1429259
                                                          -0.9931392
                                                                             -0.9704192
##
      5:
                  -0.3029609
                                       0.1383067
                                                          -0.9955746
                                                                             -0.9709604
##
                  -0.2767180
## 2943:
                                       -0.2315935
                                                          -0.9807982
                                                                             -0.9203893
## 2944:
                  -0.2749762
                                       -0.2280502
                                                          -0.9817830
                                                                             -0.9295222
## 2945:
                                                          -0.9828841
                                                                             -0.9333010
                  -0.2761645
                                       -0.2262558
## 2946:
                                                                             -0.9621989
                  -0.2623564
                                       -0.2351080
                                                          -0.9859829
## 2947:
                                                                             -0.9645770
                  -0.2614073
                                       -0.2361121
                                                          -0.9847364
##
         tGravityAcc-std-Z tBodyAccJerk-mean-X tBodyAccJerk-mean-Y
##
      1:
                 -0.5642884
                                      0.07204601
                                                           0.045754401
##
      2:
                 -0.9647811
                                       0.07018069
                                                          -0.017876016
##
      3:
                 -0.9815796
                                      0.06936778
                                                          -0.004908146
##
      4:
                 -0.9915917
                                      0.07485289
                                                           0.032274322
##
      5:
                                                           0.022276764
                 -0.9680853
                                      0.07837679
##
## 2943:
                 -0.9494664
                                     -0.08800546
                                                          -0.231491610
   2944:
                 -0.9346775
                                      0.14876453
                                                          -0.344464440
  2945:
                 -0.9400140
                                      0.04632680
                                                          -0.174973600
  2946:
                                      0.33455894
                 -0.9489939
                                                          -0.059122249
##
   2947:
                 -0.9623691
                                       0.22380428
                                                           0.256686870
##
         tBodyAccJerk-mean-Z tBodyAccJerk-std-X tBodyAccJerk-std-Y
##
                 -0.106042660
                                       -0.9066828
                                                            -0.9380164
##
      2.
                                       -0.9492040
                                                            -0.9726989
                 -0.001720629
                 -0.013672983
                                                            -0.9714041
##
                                       -0.9910699
##
      4.
                  0.012141275
                                       -0.9908016
                                                            -0.9728957
      5:
                  0.002748499
                                       -0.9920724
                                                            -0.9786700
##
  2943:
                  0.036014732
                                       -0.4167254
                                                            -0.5212051
## 2944:
                                       -0.3620992
                                                            -0.4023177
                 -0.131282100
## 2945:
                  0.200841960
                                       -0.3893490
                                                            -0.4320439
## 2946:
                  0.020024236
                                       -0.4418078
                                                            -0.5788833
##
   2947:
                  0.012817095
                                       -0.4790768
                                                            -0.5687591
##
         tBodyAccJerk-std-Z tBodyGyro-mean-X tBodyGyro-mean-Y tBodyGyro-mean-Z
##
                                                                         0.18962854
                  -0.9359358
                                   0.119976160
                                                     -0.09179234
      1:
##
      2:
                  -0.9777267
                                  -0.001552463
                                                      -0.18729119
                                                                         0.18070522
##
      3:
                  -0.9728674
                                  -0.048212671
                                                                         0.15417437
                                                     -0.16627974
##
      4:
                  -0.9759253
                                  -0.056641577
                                                     -0.12601846
                                                                         0.11833718
##
      5.
                  -0.9866120
                                  -0.059992128
                                                     -0.08472343
                                                                         0.07865926
##
## 2943:
                  -0.5431463
                                  -0.142472810
                                                      0.02544275
                                                                         0.20286208
## 2944:
                  -0.5291683
                                                      -0.04315641
                                   0.062107316
                                                                         0.11359406
## 2945:
                  -0.5453444
                                  -0.123715000
                                                      0.08631957
                                                                         0.26142304
  2946:
                  -0.4903575
                                  -0.335912030
                                                      0.09934677
                                                                         0.35505812
##
   2947:
                  -0.4170744
                                  -0.208229480
                                                     -0.03865400
                                                                         0.24610106
##
         tBodyGyro-std-X tBodyGyro-std-Y tBodyGyro-std-Z tBodyGyroJerk-mean-X
##
               -0.8830891
                                -0.8161636
                                                 -0.9408812
                                                                       -0.20489621
      1:
##
      2:
               -0.9255665
                                -0.9295992
                                                 -0.9675810
                                                                       -0.13866849
##
      3:
               -0.9729882
                                -0.9785106
                                                 -0.9756483
                                                                       -0.09780967
##
      4:
               -0.9677905
                                -0.9751338
                                                 -0.9632327
                                                                       -0.10223178
##
      5:
               -0.9746560
                                -0.9779511
                                                 -0.9676287
                                                                       -0.09184994
##
                                                 -0.2567564
## 2943:
               -0.5627386
                                -0.5268550
                                                                        0.13828793
## 2944:
               -0.4640369
                                -0.5181490
                                                 -0.1396287
                                                                       -0.20074200
## 2945:
               -0.4219774
                                -0.5570594
                                                 -0.1975039
                                                                       -0.36210021
```

```
## 2946:
               -0.6678579
                                -0.5551660
                                                 -0.3426199
                                                                       -0.05582278
  2947:
                                -0.5085570
                                                 -0.3138543
                                                                       -0.02814551
               -0.6166534
##
         tBodyGyroJerk-mean-Y tBodyGyroJerk-mean-Z tBodyGyroJerk-std-X
##
                  -0.174487710
                                        -0.093389340
                                                                -0.9012242
      1:
##
      2:
                  -0.025802071
                                        -0.071418405
                                                                -0.9623042
##
                  -0.034213274
                                        -0.060028399
                                                                -0.9841669
      3.
##
                  -0.044713461
                                        -0.053436499
                                                                -0.9841709
                  -0.029005022
                                                                -0.9884738
##
      5:
                                        -0.061235354
##
  2943:
                  -0.005041591
                                                                -0.6646345
##
                                        -0.279400710
   2944:
                   0.069037389
                                         -0.259789700
                                                                -0.5984058
##
  2945:
                  -0.303347310
                                                                -0.6124836
                                         0.172746460
   2946:
                  -0.103685680
                                          0.314818590
                                                                -0.7150106
##
   2947:
                   0.173651560
                                         0.001372617
                                                                -0.6857578
##
         tBodyGyroJerk-std-Y tBodyGyroJerk-std-Z tBodyAccMag-mean tBodyAccMag-std
##
      1:
                   -0.9108601
                                         -0.9392504
                                                           -0.8669294
                                                                            -0.7051911
##
      2:
                   -0.9562894
                                                           -0.9689614
                                         -0.9813408
                                                                            -0.9539024
##
      3:
                   -0.9879399
                                        -0.9761876
                                                           -0.9762282
                                                                            -0.9790834
##
      4:
                   -0.9895542
                                        -0.9807240
                                                           -0.9743245
                                                                            -0.9770159
##
      5:
                   -0.9918773
                                         -0.9819836
                                                           -0.9758356
                                                                            -0.9768934
##
## 2943:
                   -0.6049332
                                        -0.6670702
                                                           -0.2008855
                                                                            -0.2343877
                                                                            -0.1986268
## 2944:
                   -0.5946965
                                        -0.6417382
                                                           -0.1705631
## 2945:
                   -0.6281620
                                                           -0.2076032
                                                                            -0.2523881
                                         -0.6161555
## 2946:
                   -0.6623249
                                         -0.7009483
                                                           -0.2338657
                                                                            -0.2927046
   2947:
                   -0.6194253
                                         -0.6872994
                                                           -0.2243090
                                                                            -0.2624866
##
         tGravityAccMag-mean tGravityAccMag-std tBodyAccJerkMag-mean
                   -0.8669294
##
      1:
                                        -0.7051911
                                                              -0.9297665
##
      2:
                   -0.9689614
                                       -0.9539024
                                                              -0.9737168
##
      3:
                   -0.9762282
                                       -0.9790834
                                                              -0.9816177
##
      4:
                   -0.9743245
                                       -0.9770159
                                                              -0.9827121
##
      5:
                   -0.9758356
                                       -0.9768934
                                                              -0.9869079
##
## 2943:
                   -0.2008855
                                       -0.2343877
                                                              -0.4559232
## 2944:
                   -0.1705631
                                       -0.1986268
                                                              -0.4257498
  2945:
                   -0.2076032
                                       -0.2523881
                                                              -0.4632321
## 2946:
                   -0.2338657
                                       -0.2927046
                                                              -0.4864946
## 2947:
                   -0.2243090
                                       -0.2624866
                                                              -0.4624043
##
         tBodyAccJerkMag-std tBodyGyroMag-mean tBodyGyroMag-std
                   -0.8959942
##
      1:
                                      -0.7955439
                                                         -0.7620732
##
      2:
                   -0.9410078
                                      -0.8984331
                                                         -0.9108583
##
      3:
                   -0.9713710
                                      -0.9391936
                                                         -0.9717763
                                                         -0.9703682
##
      4.
                   -0.9748075
                                      -0.9471844
##
      5:
                   -0.9888539
                                      -0.9574192
                                                         -0.9694995
##
## 2943:
                   -0.4126706
                                      -0.3937639
                                                         -0.4789186
   2944:
                   -0.2880653
                                      -0.3031531
                                                         -0.4765808
  2945:
                   -0.2923697
                                      -0.2886459
                                                         -0.5303024
   2946:
                   -0.3621037
                                      -0.3789522
                                                         -0.5472317
##
   2947:
                   -0.3710656
                                      -0.4085228
                                                         -0.4939524
##
         tBodyGyroJerkMag-mean tBodyGyroJerkMag-std fBodyAcc-mean-X
##
      1:
                     -0.9251949
                                            -0.8943436
                                                             -0.9185097
##
      2:
                     -0.9733934
                                            -0.9440900
                                                             -0.9609030
##
                     -0.9867480
                                            -0.9844015
                                                             -0.9919063
```

```
##
      4:
                     -0.9888204
                                            -0.9855681
                                                             -0.9930298
##
      5:
                     -0.9900621
                                            -0.9904189
                                                             -0.9924042
##
## 2943:
                     -0.6494828
                                                             -0.3355388
                                            -0.5967016
## 2944:
                     -0.6322312
                                            -0.5643632
                                                             -0.2504241
## 2945:
                     -0.6497476
                                            -0.5915989
                                                             -0.3626403
## 2946:
                     -0.6966865
                                                             -0.3783654
                                            -0.6583167
## 2947:
                     -0.6682140
                                            -0.6083416
                                                             -0.4012226
##
         fBodyAcc-mean-Y fBodyAcc-mean-Z fBodyAcc-std-X fBodyAcc-std-Y
##
      1:
             -0.91821319
                                -0.7890915
                                                -0.9482903
                                                              -0.925136870
##
      2:
             -0.96443332
                                -0.9566748
                                                -0.9843500
                                                              -0.970174760
      3:
##
             -0.96503362
                                -0.9668996
                                                -0.9947537
                                                              -0.973695850
##
      4:
             -0.96828390
                                -0.9669116
                                                -0.9955936
                                                              -0.976917560
##
      5:
             -0.96920715
                                                              -0.967468110
                                -0.9796527
                                                -0.9945037
##
## 2943:
             -0.23387059
                                -0.3286207
                                                -0.2698271
                                                              -0.148105510
  2944:
             -0.06012332
                                -0.2756377
                                                -0.3282253
                                                               0.008056758
## 2945:
             -0.18680220
                                -0.2711378
                                                -0.3169726
                                                              -0.032618899
## 2946:
             -0.40006993
                                -0.2823201
                                                -0.3024231
                                                              -0.199957890
##
  2947:
              -0.31841507
                                -0.2221230
                                                -0.3038541
                                                              -0.186334520
##
         fBodyAcc-std-Z fBodyAccJerk-mean-X fBodyAccJerk-mean-Y
##
                                   -0.8996332
                                                         -0.9374850
      1:
             -0.6363167
##
      2:
                                   -0.9435190
             -0.9418619
                                                         -0.9691623
                                   -0.9910295
                                                         -0.9733689
##
             -0.9622866
##
      4:
             -0.9689579
                                   -0.9905362
                                                         -0.9724525
      5:
             -0.9782399
                                   -0.9914800
                                                         -0.9798346
##
  2943:
             -0.2157249
                                   -0.4508228
                                                         -0.5439906
## 2944:
                                                         -0.4116971
             -0.2160092
                                   -0.3177561
             -0.2982284
## 2945:
                                   -0.3899408
                                                         -0.4348765
## 2946:
             -0.2287489
                                   -0.4261218
                                                         -0.5838392
##
   2947:
             -0.1982265
                                   -0.5238330
                                                         -0.5971720
##
         fBodyAccJerk-mean-Z fBodyAccJerk-std-X fBodyAccJerk-std-Y
##
                   -0.9235514
                                       -0.9244291
                                                            -0.9432104
      1:
##
      2:
                   -0.9734489
                                       -0.9616312
                                                            -0.9800263
##
      3:
                   -0.9717030
                                       -0.9919122
                                                            -0.9709857
##
      4:
                   -0.9703374
                                       -0.9919600
                                                            -0.9754341
##
      5.
                   -0.9834930
                                       -0.9935709
                                                            -0.9786966
##
                                       -0.4323739
                                                            -0.5280954
## 2943:
                   -0.4988520
## 2944:
                   -0.4947402
                                       -0.4780054
                                                            -0.4339487
## 2945:
                   -0.4448655
                                       -0.4448027
                                                            -0.4698176
  2946:
                   -0.4391983
                                       -0.5122416
                                                            -0.6030957
##
   2947:
                   -0.3568914
                                       -0.4784920
                                                            -0.5659273
##
         fBodyAccJerk-std-Z fBodyGyro-mean-X fBodyGyro-mean-Y fBodyGyro-mean-Z
##
                                    -0.8235579
      1:
                  -0.9478915
                                                       -0.8079160
                                                                         -0.9179126
##
      2:
                  -0.9807873
                                    -0.9225130
                                                       -0.9264957
                                                                         -0.9682295
##
      3:
                  -0.9723222
                                    -0.9728456
                                                       -0.9808333
                                                                         -0.9720602
##
      4:
                  -0.9806211
                                    -0.9715016
                                                       -0.9813450
                                                                         -0.9667055
##
      5:
                  -0.9885033
                                    -0.9764045
                                                       -0.9804043
                                                                         -0.9687820
##
## 2943:
                  -0.5854999
                                    -0.4763887
                                                       -0.5218199
                                                                         -0.3426978
## 2944:
                  -0.5609813
                                    -0.4319631
                                                       -0.4920759
                                                                         -0.3281087
## 2945:
                  -0.6572389
                                    -0.2914094
                                                       -0.5179180
                                                                         -0.3063887
```

```
## 2946:
                  -0.5396678
                                    -0.6278853
                                                      -0.5434641
                                                                         -0.3680427
## 2947:
                  -0.4752730
                                    -0.5689044
                                                      -0.5114901
                                                                         -0.4532693
##
         fBodyGyro-std-X fBodyGyro-std-Y fBodyGyro-std-Z fBodyAccMag-mean
##
               -0.9032627
                                -0.8226770
                                                 -0.9561651
                                                                   -0.7909464
      1:
##
      2:
               -0.9270506
                                -0.9320107
                                                 -0.9701434
                                                                   -0.9541266
##
      3.
               -0.9731979
                                -0.9771945
                                                 -0.9790953
                                                                   -0.9756497
##
      4:
               -0.9671856
                                -0.9719094
                                                 -0.9652755
                                                                   -0.9733931
##
      5:
               -0.9743979
                                -0.9765654
                                                 -0.9700165
                                                                   -0.9777390
##
     ___
## 2943:
              -0.5904839
                                -0.5333008
                                                 -0.2985052
                                                                   -0.2731909
## 2944:
               -0.4781497
                                -0.5383805
                                                 -0.1648946
                                                                   -0.2094867
## 2945:
               -0.4635660
                                -0.5861540
                                                 -0.2381669
                                                                   -0.2366061
## 2946:
               -0.6817483
                                -0.5656499
                                                 -0.3944327
                                                                   -0.3147630
   2947:
##
               -0.6331353
                                -0.5101592
                                                 -0.3365837
                                                                   -0.2884126
##
         fBodyAccMag-std fBodyBodyAccJerkMag-mean fBodyBodyAccJerkMag-std
##
      1:
               -0.7110740
                                          -0.8950612
                                                                   -0.8963596
##
      2:
               -0.9597458
                                          -0.9454372
                                                                   -0.9341520
              -0.9837843
                                          -0.9710690
##
      3:
                                                                   -0.9703078
##
      4:
               -0.9821196
                                          -0.9716545
                                                                   -0.9784844
               -0.9788381
##
      5:
                                          -0.9874888
                                                                   -0.9897160
##
## 2943:
               -0.3321409
                                          -0.4221715
                                                                   -0.4034507
               -0.3169538
## 2944:
                                          -0.2652178
                                                                   -0.3222741
## 2945:
               -0.3772403
                                          -0.2474406
                                                                   -0.3589800
                                          -0.3486653
## 2946:
               -0.3902011
                                                                   -0.3832820
   2947:
               -0.3625984
                                          -0.3651578
                                                                   -0.3823873
##
         fBodyBodyGyroMag-mean fBodyBodyGyroMag-std fBodyBodyGyroJerkMag-mean
##
                     -0.7706100
                                            -0.7971128
                                                                        -0.8901655
      1:
##
      2:
                     -0.9244608
                                                                        -0.9519774
                                            -0.9167741
                     -0.9752095
##
      3:
                                                                        -0.9856888
                                            -0.9739984
##
      4:
                     -0.9762973
                                            -0.9712482
                                                                        -0.9855619
##
      5:
                     -0.9770070
                                            -0.9696193
                                                                        -0.9904980
##
## 2943:
                     -0.4778440
                                            -0.5712343
                                                                        -0.6014236
## 2944:
                     -0.4918547
                                            -0.5565773
                                                                        -0.5663438
## 2945:
                     -0.6012827
                                            -0.5633274
                                                                        -0.5923314
## 2946:
                     -0.6385545
                                            -0.5659171
                                                                        -0.6797106
## 2947:
                     -0.5186400
                                            -0.5639466
                                                                        -0.6159911
##
         fBodyBodyGyroJerkMag-std
                        -0.9073076
##
      1:
##
      2:
                        -0.9382124
##
      3.
                        -0.9832727
##
      4:
                        -0.9858429
##
      5:
                        -0.9905719
##
## 2943:
                        -0.6188288
## 2944:
                        -0.5925070
## 2945:
                        -0.6179484
## 2946:
                        -0.6549599
## 2947:
                        -0.6252073
```

Merge Datasets