UCI HAR TIDY DATASET CODE BOOK

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This code book describes two files: **“tidy\_dataset1”,** **“tidy\_dataset1”** which are generated by function **“run.analysis.R”** by transforming data from **“UCI HAR Dataset”.**

**TIDY\_DATASET1**

|  |  |  |
| --- | --- | --- |
| COLUMN NAME | COLUMN FORMAT | SAMPLE DATA |
| activity\_name | character | STANDING |
| activity\_code | integer | 5 |
| subject | integer | 2 |
| tBodyAcc-mean()-X | numeric | 0.25717778 |
| tBodyAcc-mean()-Y | numeric | -0.02328523 |
| tBodyAcc-mean()-Z | numeric | -0.014653762 |
| tBodyAcc-std()-X | numeric | -0.938404 |
| tBodyAcc-std()-Y | numeric | -0.92009078 |
| tBodyAcc-std()-Z | numeric | -0.66768331 |
| tGravityAcc-mean()-X | numeric | 0.93648925 |
| tGravityAcc-mean()-Y | numeric | -0.28271916 |
| tGravityAcc-mean()-Z | numeric | 0.11528825 |
| tGravityAcc-std()-X | numeric | -0.92542727 |
| tGravityAcc-std()-Y | numeric | -0.93701413 |
| tGravityAcc-std()-Z | numeric | -0.56428842 |
| tBodyAccJerk-mean()-X | numeric | 0.072046007 |
| tBodyAccJerk-mean()-Y | numeric | 0.045754401 |
| tBodyAccJerk-mean()-Z | numeric | -0.10604266 |
| tBodyAccJerk-std()-X | numeric | -0.90668276 |
| tBodyAccJerk-std()-Y | numeric | -0.93801639 |
| tBodyAccJerk-std()-Z | numeric | -0.93593583 |
| tBodyGyro-mean()-X | numeric | 0.11997616 |
| tBodyGyro-mean()-Y | numeric | -0.091792335 |
| tBodyGyro-mean()-Z | numeric | 0.18962854 |
| tBodyGyro-std()-X | numeric | -0.88308911 |
| tBodyGyro-std()-Y | numeric | -0.8161636 |
| tBodyGyro-std()-Z | numeric | -0.94088123 |
| tBodyGyroJerk-mean()-X | numeric | -0.20489621 |
| tBodyGyroJerk-mean()-Y | numeric | -0.17448771 |
| tBodyGyroJerk-mean()-Z | numeric | -0.09338934 |
| tBodyGyroJerk-std()-X | numeric | -0.90122415 |
| tBodyGyroJerk-std()-Y | numeric | -0.91086005 |
| tBodyGyroJerk-std()-Z | numeric | -0.93925042 |
| tBodyAccMag-mean() | numeric | -0.86692938 |
| tBodyAccMag-std() | numeric | -0.70519112 |
| tGravityAccMag-mean() | numeric | -0.86692938 |
| tGravityAccMag-std() | numeric | -0.70519112 |
| tBodyAccJerkMag-mean() | numeric | -0.92976655 |
| tBodyAccJerkMag-std() | numeric | -0.89599425 |
| tBodyGyroMag-mean() | numeric | -0.79554393 |
| tBodyGyroMag-std() | numeric | -0.76207322 |
| tBodyGyroJerkMag-mean() | numeric | -0.92519489 |
| tBodyGyroJerkMag-std() | numeric | -0.89434361 |
| fBodyAcc-mean()-X | numeric | -0.91850969 |
| fBodyAcc-mean()-Y | numeric | -0.91821319 |
| fBodyAcc-mean()-Z | numeric | -0.78909145 |
| fBodyAcc-std()-X | numeric | -0.94829035 |
| fBodyAcc-std()-Y | numeric | -0.92513687 |
| fBodyAcc-std()-Z | numeric | -0.63631674 |
| fBodyAcc-meanFreq()-X | numeric | 0.011116947 |
| fBodyAcc-meanFreq()-Y | numeric | 0.12125069 |
| fBodyAcc-meanFreq()-Z | numeric | -0.52294869 |
| fBodyAccJerk-mean()-X | numeric | -0.89963316 |
| fBodyAccJerk-mean()-Y | numeric | -0.937485 |
| fBodyAccJerk-mean()-Z | numeric | -0.9235514 |
| fBodyAccJerk-std()-X | numeric | -0.92442913 |
| fBodyAccJerk-std()-Y | numeric | -0.94321038 |
| fBodyAccJerk-std()-Z | numeric | -0.94789152 |
| fBodyAccJerk-meanFreq()-X | numeric | 0.45100539 |
| fBodyAccJerk-meanFreq()-Y | numeric | 0.13716703 |
| fBodyAccJerk-meanFreq()-Z | numeric | -0.18029913 |
| fBodyGyro-mean()-X | numeric | -0.82355788 |
| fBodyGyro-mean()-Y | numeric | -0.80791598 |
| fBodyGyro-mean()-Z | numeric | -0.91791256 |
| fBodyGyro-std()-X | numeric | -0.90326274 |
| fBodyGyro-std()-Y | numeric | -0.822677 |
| fBodyGyro-std()-Z | numeric | -0.95616508 |
| fBodyGyro-meanFreq()-X | numeric | 0.18403457 |
| fBodyGyro-meanFreq()-Y | numeric | -0.059322857 |
| fBodyGyro-meanFreq()-Z | numeric | 0.43810716 |
| fBodyAccMag-mean() | numeric | -0.79094643 |
| fBodyAccMag-std() | numeric | -0.711074 |
| fBodyAccMag-meanFreq() | numeric | -0.48345254 |
| fBodyBodyAccJerkMag-mean() | numeric | -0.89506118 |
| fBodyBodyAccJerkMag-std() | numeric | -0.89635958 |
| fBodyBodyAccJerkMag-meanFreq() | numeric | -0.035355792 |
| fBodyBodyGyroMag-mean() | numeric | -0.77061 |
| fBodyBodyGyroMag-std() | numeric | -0.79711285 |
| fBodyBodyGyroMag-meanFreq() | numeric | -0.047391298 |
| fBodyBodyGyroJerkMag-mean() | numeric | -0.89016545 |
| fBodyBodyGyroJerkMag-std() | numeric | -0.90730756 |
| fBodyBodyGyroJerkMag-meanFreq() | numeric | 0.071645446 |
| angle(tBodyAccMean,gravity) | numeric | 0.0064624029 |
| angle(tBodyAccJerkMean),gravityMean) | numeric | 0.16291982 |
| angle(tBodyGyroMean,gravityMean) | numeric | -0.82588562 |
| angle(tBodyGyroJerkMean,gravityMean) | numeric | 0.27115145 |
| angle(X,gravityMean) | numeric | -0.72000927 |
| angle(Y,gravityMean) | numeric | 0.27680104 |
| angle(Z,gravityMean) | numeric | -0.057978304 |

**TIDY\_DATASET2**

|  |  |  |
| --- | --- | --- |
| COLUMN NAME | COLUMN FORMAT | SAMPLE DATA |
| activity\_name | character | LAYING |
| subject | integer | 1 |
| tBodyAcc-mean()-X | numeric | 0.277330758736842 |
| tBodyAcc-mean()-Y | numeric | -0.0173838185273684 |
| tBodyAcc-mean()-Z | numeric | -0.111148103547368 |
| tGravityAcc-mean()-X | numeric | 0.935223201473684 |
| tGravityAcc-mean()-Y | numeric | -0.282165021263158 |
| tGravityAcc-mean()-Z | numeric | -0.068102864 |
| tBodyAccJerk-mean()-X | numeric | 0.0740416333157895 |
| tBodyAccJerk-mean()-Y | numeric | 0.0282721095884211 |
| tBodyAccJerk-mean()-Z | numeric | -0.00416840617789474 |
| tBodyGyro-mean()-X | numeric | -0.041830963526 |
| tBodyGyro-mean()-Y | numeric | -0.0695300462115789 |
| tBodyGyro-mean()-Z | numeric | 0.0849448173042105 |
| tBodyGyroJerk-mean()-X | numeric | -0.0899975423705263 |
| tBodyGyroJerk-mean()-Y | numeric | -0.0398428709463158 |
| tBodyGyroJerk-mean()-Z | numeric | -0.0461309295021053 |
| tBodyAccMag-mean() | numeric | -0.136971176556842 |
| tGravityAccMag-mean() | numeric | -0.136971176556842 |
| tBodyAccJerkMag-mean() | numeric | -0.141428809031579 |
| tBodyGyroMag-mean() | numeric | -0.160979552536842 |
| tBodyGyroJerkMag-mean() | numeric | -0.298703679084211 |
| fBodyAcc-mean()-X | numeric | -0.202794306326316 |
| fBodyAcc-mean()-Y | numeric | 0.0897127264021053 |
| fBodyAcc-mean()-Z | numeric | -0.331560117789474 |
| fBodyAcc-meanFreq()-X | numeric | -0.207548374494737 |
| fBodyAcc-meanFreq()-Y | numeric | 0.113093646103158 |
| fBodyAcc-meanFreq()-Z | numeric | 0.0497265196172632 |
| fBodyAccJerk-mean()-X | numeric | -0.170546964549579 |
| fBodyAccJerk-mean()-Y | numeric | -0.0352255241130632 |
| fBodyAccJerk-mean()-Z | numeric | -0.468999224631579 |
| fBodyAccJerk-meanFreq()-X | numeric | -0.209261973376842 |
| fBodyAccJerk-meanFreq()-Y | numeric | -0.386237143210526 |
| fBodyAccJerk-meanFreq()-Z | numeric | -0.185530281244211 |
| fBodyGyro-mean()-X | numeric | -0.339032197115789 |
| fBodyGyro-mean()-Y | numeric | -0.103059416434737 |
| fBodyGyro-mean()-Z | numeric | -0.255940940315789 |
| fBodyGyro-meanFreq()-X | numeric | 0.0147844986621053 |
| fBodyGyro-meanFreq()-Y | numeric | -0.0657746190010526 |
| fBodyGyro-meanFreq()-Z | numeric | 0.00077332156431579 |
| fBodyAccMag-mean() | numeric | -0.128623450629474 |
| fBodyAccMag-meanFreq() | numeric | 0.1906437244 |
| fBodyBodyAccJerkMag-mean() | numeric | -0.0571194000343158 |
| fBodyBodyAccJerkMag-meanFreq() | numeric | 0.0938221807027368 |
| fBodyBodyGyroMag-mean() | numeric | -0.199252568986316 |
| fBodyBodyGyroMag-meanFreq() | numeric | 0.268844367525895 |
| fBodyBodyGyroJerkMag-mean() | numeric | -0.319308593778947 |
| fBodyBodyGyroJerkMag-meanFreq() | numeric | 0.190663448793684 |
| angle(tBodyAccMean,gravity) | numeric | 0.0604537474147368 |
| angle(tBodyAccJerkMean),gravityMean) | numeric | -0.00793037848421052 |
| angle(tBodyGyroMean,gravityMean) | numeric | 0.0130594907157895 |
| angle(tBodyGyroJerkMean,gravityMean) | numeric | -0.0187431910452632 |
| angle(X,gravityMean) | numeric | -0.729247201052632 |
| angle(Y,gravityMean) | numeric | 0.276953023473684 |
| angle(Z,gravityMean) | numeric | 0.0688589119894737 |