

CodeBook [run\_analysis.R]

## General Notes

[1] Original Data set (source): <https://d396qusza40orc.cloudfront.net/getdata%2Fprojectfiles%2FUCI%20HAR%20Dataset.zip>

[2] Refer to file "runanalysis diagram.png" for a high-level visual representation of this CodeBook.

The following descriptions of the 83 variables in complete data set created by the run\_analysis.R script:

subjectid                      Number ranging from 1 to 100 representing each volunteer for the experiment, where 70% was selected for generating the training data and 30% the test data.

activityid                      Number ranging from 1 to 5 for each activity type.

- 1 - LAYING
- 2 - SITTING
- 3 - STANDING WALKING
- 4 - WALKING\_DOWNSTAIRS
- 5 - WALKING\_UPSTAIRS

activitytype                      activities described above.

datasetname:                      Identifies the initial data set source

- Train set
- Test set

The rest of the variables are the same as in the original data set[1], with the caveat that the second processed data set lists averages over all observations in a group:

tBodyAcc-mean()-X  
tBodyAcc-mean()-Y  
tBodyAcc-mean()-Z  
tBodyAcc-std()-X  
tBodyAcc-std()-Y  
tBodyAcc-std()-Z  
tGravityAcc-mean()-X  
tGravityAcc-mean()-Y  
tGravityAcc-mean()-Z  
tGravityAcc-std()-X  
tGravityAcc-std()-Y  
tGravityAcc-std()-Z  
tBodyAccJerk-mean()-X  
tBodyAccJerk-mean()-Y  
tBodyAccJerk-mean()-Z

tBodyAccJerk-std()-X  
tBodyAccJerk-std()-Y  
tBodyAccJerk-std()-Z  
tBodyGyro-mean()-X  
tBodyGyro-mean()-Y  
tBodyGyro-mean()-Z  
tBodyGyro-std()-X  
tBodyGyro-std()-Y  
tBodyGyro-std()-Z  
tBodyGyroJerk-mean()-X  
tBodyGyroJerk-mean()-Y  
tBodyGyroJerk-mean()-Z  
tBodyGyroJerk-std()-X  
tBodyGyroJerk-std()-Y  
tBodyGyroJerk-std()-Z  
tBodyAccMag-mean()  
tBodyAccMag-std()  
tGravityAccMag-mean()  
tGravityAccMag-std()  
tBodyAccJerkMag-mean()  
tBodyAccJerkMag-std()  
tBodyGyroMag-mean()  
tBodyGyroMag-std()  
tBodyGyroJerkMag-mean()  
tBodyGyroJerkMag-std()  
fBodyAcc-mean()-X  
fBodyAcc-mean()-Y  
fBodyAcc-mean()-Z  
fBodyAcc-std()-X  
fBodyAcc-std()-Y  
fBodyAcc-std()-Z  
fBodyAcc-meanFreq()-X  
fBodyAcc-meanFreq()-Y  
fBodyAcc-meanFreq()-Z  
fBodyAccJerk-mean()-X  
fBodyAccJerk-mean()-Y  
fBodyAccJerk-mean()-Z  
fBodyAccJerk-std()-X  
fBodyAccJerk-std()-Y  
fBodyAccJerk-std()-Z  
fBodyAccJerk-meanFreq()-X  
fBodyAccJerk-meanFreq()-Y  
fBodyAccJerk-meanFreq()-Z  
fBodyGyro-mean()-X  
fBodyGyro-mean()-Y  
fBodyGyro-mean()-Z  
fBodyGyro-std()-X  
fBodyGyro-std()-Y  
fBodyGyro-std()-Z  
fBodyGyro-meanFreq()-X

fBodyGyro-meanFreq()-Y  
fBodyGyro-meanFreq()-Z  
fBodyAccMag-mean()  
fBodyAccMag-std()  
fBodyAccMag-meanFreq()  
fBodyBodyAccJerkMag-mean()  
fBodyBodyAccJerkMag-std()  
fBodyBodyAccJerkMag-meanFreq()  
fBodyBodyGyroMag-mean()  
fBodyBodyGyroMag-std()  
fBodyBodyGyroMag-meanFreq()  
fBodyBodyGyroJerkMag-mean()  
fBodyBodyGyroJerkMag-std()  
fBodyBodyGyroJerkMag-meanFreq()