#Code Book

##This code book modifies and updates the available codebooks with the data to indicate all the variables and summaries calculated, along with units, and any other relevant information in tidy.x.

#Identifiers

\*SUBJECT- The ID given to the test subect

\*ACTIVITY- The type of activity performed when the corresponding measurements were recorded

#Measurements

##- Features are normalized and bounded within [-1,1].

##- Each feature vector is a row on the 'X' and 'y' files.

##- The units used for the accelerations (total and body) are 'g's (gravity of earth -> 9.80665 m/seg2). (Acc)

##- The gyroscope units are rad/seg. (Gyro)

\*tBodyAcc\_MeanX

\*tBodyAcc\_MeanY

\*tBodyAcc\_MeanZ

\*tBodyAcc\_StdX

\*tBodyAcc\_StdY

\*tBodyAcc\_StdZ

\*tGravityAcc\_MeanX

\*tGravityAcc\_MeanY

\*tGravityAcc\_MeanZ

\*tGravityAcc\_StdX

\*tGravityAcc\_StdY

\*tGravityAcc\_StdZ

\*tBodyAccJerk\_MeanX

\*tBodyAccJerk\_MeanY

\*tBodyAccJerk\_MeanZ

\*tBodyAccJerk\_StdX

\*tBodyAccJerk\_StdY

\*tBodyAccJerk\_StdZ

\*tBodyGyro\_MeanX

\*tBodyGyro\_MeanY

\*tBodyGyro\_MeanZ

\*tBodyGyro\_StdX

\*tBodyGyro\_StdY

\*tBodyGyro\_StdZ

\*tBodyGyroJerk\_MeanX

\*tBodyGyroJerk\_MeanY

\*tBodyGyroJerk\_MeanZ

\*tBodyGyroJerk\_StdX

\*tBodyGyroJerk\_StdY

\*tBodyGyroJerk\_StdZ

\*tBodyAccMag\_Mean

\*tBodyAccMag\_Std

\*tGravityAccMag\_Mean

\*tGravityAccMag\_Std

\*tBodyAccJerkMag\_Mean

\*tBodyAccJerkMag\_Std

\*tBodyGyroMag\_Mean

\*tBodyGyroMag\_Std

\*tBodyGyroJerkMag\_Mean

\*tBodyGyroJerkMag\_Std

\*fBodyAcc\_MeanX

\*fBodyAcc\_MeanY

\*fBodyAcc\_MeanZ

\*fBodyAcc\_StdX

\*fBodyAcc\_StdY

\*fBodyAcc\_StdZ

\*fBodyAcc\_MeanFreqX

\*fBodyAcc\_MeanFreqY

\*fBodyAcc\_MeanFreqZ

\*fBodyAccJerk\_MeanX

\*fBodyAccJerk\_MeanY

\*fBodyAccJerk\_MeanZ

\*fBodyAccJerk\_StdX

\*fBodyAccJerk\_StdY

\*fBodyAccJerk\_StdZ

\*fBodyAccJerk\_MeanFreqX

\*fBodyAccJerk\_MeanFreqY

\*fBodyAccJerk\_MeanFreqZ

\*fBodyGyro\_MeanX

\*fBodyGyro\_MeanY

\*fBodyGyro\_MeanZ

\*fBodyGyro\_StdX

\*fBodyGyro\_StdY

\*fBodyGyro\_StdZ

\*fBodyGyro\_MeanFreqX

\*fBodyGyro\_MeanFreqY

\*fBodyGyro\_MeanFreqZ

\*fBodyAccMag\_Mean

\*fBodyAccMag\_Std

\*fBodyAccMag\_MeanFreq

\*fBodyBodyAccJerkMag\_Mean

\*fBodyBodyAccJerkMag\_Std

\*fBodyBodyAccJerkMag\_MeanFreq

\*fBodyBodyGyroMag\_Mean

\*fBodyBodyGyroMag\_Std

\*fBodyBodyGyroMag\_MeanFreq

\*fBodyBodyGyroJerkMag\_Mean

\*fBodyBodyGyroJerkMag\_Std

\*fBodyBodyGyroJerkMag\_MeanFreq

#Activity Labels

\*WALKING (1): subject was walking during the test

\*WALKING\_UPSTAIRS (2): subject was walking up a staircase during the test

\*WALKING\_DOWNSTAIRS (3): subject was walking down a staircase during the test

\*SITTING (4): subject was sitting during the test

\*STANDING (5): subject was standing during the test

\*LAYING (6): subject was laying down during the test​