Code Book – Getting & Cleaning Data

Please refer to the original code book – features\_info that was provided with the Project. Link: <https://d396qusza40orc.cloudfront.net/getdata%2Fprojectfiles%2FUCI%20HAR%20Dataset.zip>

Following is the description of all the variables created in the code:

**FOR PART 1: (Combining all data sets)**

x: X\_test and X\_train data combined in one table (size: 10299 x 561)

y: y\_test and y\_train data combined in one table (size: 10299 x 1)

subject: subject\_test and subject\_train data combined in one table (size: 10299 x 1)

body\_acc\_x: body\_acc\_x\_test and body\_acc\_x\_train data combined in one table (size: 10299 x 128)

SIMILAR TO body\_acc\_x, body\_acc\_y and body\_acc\_z were created by combining the test and train data (size: 10299 x 128)

body\_gyro\_x: body\_gyro\_x\_test and body\_gyro\_x\_train data combined in one table (size: 10299 x 128)

SIMILAR TO body\_gyro\_x, body\_gyro\_y and body\_gyro\_z were created by combining the test and train data (size: 10299 x 128)

total\_acc\_x: total\_acc\_x\_test and total\_acc\_x\_train data combined in one table (size: 10299 x 128)

SIMILAR TO total\_acc\_x, total\_acc\_y and total\_acc\_z were created by combining the test and train data (size: 10299 x 128)

final\_df: Data frame created by combining (x, y, subject, body\_acc\_x, body\_acc\_y, body\_acc\_z, body\_gyro\_x, body\_gyro\_y, body\_gyro\_z, total\_acc\_x, total\_acc\_y, total\_acc\_z) (size: 10299 x 1715)

**FOR PART 4 (Appropriately labels the data set with descriptive variable names)**

featnames: Vector created by sub-setting features from features. Txt

**FOR PART 2 (Extracts only the measurements on the mean and standard deviation for each measurement)**

mean\_vect: Vector with indexes of all feature names that contain ‘mean’ string in their names

std\_vect: Vector with indexes of all feature names that contain ‘std’ string in their names

meanstd: Vector formed by combining mean\_vect and std\_vect

final\_mod: Table created by sub-setting only mean and standard deviation of each variable

**FOR PART 3 (Uses descriptive activity names to name the activities in the data set)**

final\_mod2: Table created by joining Activities and final\_mod (Activity Names added to final\_mod table)

**FOR PART 5 (From the data set in step 4, creates a second, independent tidy data set with the average of each variable for each activity and each subject)**

FINAL\_CLEAN\_DATA: Table created by summarizing averages of each variable for each activity and each subject