

## CodeBook for the Course Project on “Getting and Cleaning Data”

- Introduction:

This CodeBook refers to the data in the tidy\_data.txt file in the GitHub repo. The reader can refer to the README file for additional background information as to what this assignment is based upon and the experiment conducted.

- Identifiers:

The subject variable has 30 values (volunteers) who performed 6 different activities and several features i.e. acceleration, gyroscope, magnitude, time, frequency and angle etc.

Activity identifier, string with 6 possible values:

WALKING | WALKING\_UPSTAIRS | WALKING\_DOWNSTAIRS | SITTING |  
STANDING | LAYING

- Modifications:

For the purpose of analysis, the following modifications were made to the data set.

1. The training and test sets were merged
2. the measurements on the mean and standard deviation for each measurement were extracted only.
3. Descriptive activity names to name the activities in the data set were used instead of serial numbers
4. The data set was properly labeled with descriptive variable names to make it more readable.
5. A second, independent tidy data set was created with the average of each variable for each activity and each subject.

The collection of the source data and the transformations listed above were implemented by the run\_analysis.R R script (see README.md file for usage instructions).