**Codebook -**Getting and Cleaning Data Course Project

**TIDY DATA SET 1**

**Variables**

**subject –** Identifies the individual that performed the test .

Numeric value between 1 and 30 (inclusive)

**datatype** – Identifies whether the data was collected during training or during testing.

Factor with 2 levels: “Training” or “Test”

**activity** – Defines the type of activity during which the measurements were taken.

Factor with 6 Levels : “WALKING”, “WALKING\_UPSTAIRS”, “WALKING\_DOWNSTAIRS”, “SITTING”, “STANDING”, “LAYING”

The rest of the fields listed below represent the mean and standard deviation values recorded for the set of variables below. XYZ indicates there is a variable for each axis X, Y, and Z and correspondingly there will be a column in the data set.

**tBodyAcc-mean()-XYZ**

**tBodyAcc-std()-XYZ**

**tGravityAcc-mean()-XYZ**

**tGravityAcc-std()-XYZ**

**tBodyAccJerk-mean()-XYZ**

**tBodyAccJerk-std()-XYZ**

**tBodyGyro-mean()-XYZ**

**tBodyGyro-std()-XYZ**

**tBodyGyroJerk-mean()-XYZ**

**tBodyGyroJerk-std()-X**

**tBodyAccMag-mean()**

**tBodyAccMag-std()**

**tGravityAccMag-mean()**

**tGravityAccMag-std()**

**tBodyAccJerkMag-mean()**

**tBodyAccJerkMag-std()**

**tBodyGyroMag-mean()**

**tBodyGyroMag-std()**

**tBodyGyroJerkMag-mean()**

**tBodyGyroJerkMag-std()**

**fBodyAcc-mean()-XYZ**

**fBodyAcc-std()-XYZ**

**fBodyAccJerk-mean()-XYZ**

**fBodyAccJerk-std()-XYZ**

**fBodyGyro-mean()-X**

**fBodyGyro-std()-XYZ**

**fBodyAccMag-mean()**

**fBodyAccMag-std()**

**fBodyBodyAccJerkMag-mean()**

**fBodyBodyAccJerkMag-std()**

**fBodyBodyGyroMag-mean()**

**fBodyBodyGyroMag-std()**

**fBodyBodyGyroJerkMag-mean()**

**fBodyBodyGyroJerkMag-std()**

**TIDY DATA SET 2.**

**The Tidy Data Set 2 groups the data set 1 by “ subject” and by “activity” and presents the average for each value measured.**

**The data sets used to prepare both datasets were obtained from the following website:**

<https://d396qusza40orc.cloudfront.net/getdata%2Fprojectfiles%2FUCI%20HAR%20Dataset.zip>

The data was processed following the script in: “run\_analysis.R”

Author: Pedro Alfonso

Coursera Course: Getting and Cleaning Data