

Code Book

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Dataset downloaded and extracted under the folder called UCI HAR Dataset

features <- features.txt : 561 rows, 2 columns The features selected for this database come from the accelerometer and gyroscope 3-axial raw signals tAcc-XYZ and tGyro-XYZ. activities <- activity_labels.txt : 6 rows, 2 columns List of activities performed when the corresponding measurements were taken and its codes (labels) subject_test <- test/subject_test.txt : 2947 rows, 1 column contains test data of 9/30 volunteer test subjects being observed x_test <- test/X_test.txt : 2947 rows, 561 columns contains recorded features test data y_test <- test/y_test.txt : 2947 rows, 1 columns contains test data of activities'code labels subject_train <- test/subject_train.txt : 7352 rows, 1 column contains train data of 21/30 volunteer subjects being observed x_train <- test/X_train.txt : 7352 rows, 561 columns contains recorded features train data y_train <- test/y_train.txt : 7352 rows, 1 columns contains train data of activities'code labels

x (10299 rows, 561 columns) is created by merging x_train and x_test using rbind() function y (10299 rows, 1 column) is created by merging y_train and y_test using rbind() function sub (10299 rows, 1 column) is created by merging subject_train and subject_test using rbind() function data (10299 rows, 563 column) is created by merging sub, x and y using cbind() function

TidyData is created by subsetting data, selecting only: subject, code and the measurements

Numbers in columns of TidyData are replaced with corresponding activity taken from second column of the activities variable

Appropriately labeled the data set with descriptive variable names

create independent tidy data set with the average of each variable for each activity and each subject