Code Book for Summarised Wearables Data – Feb 22 2015

The file contains 180 observations of 101 variables. Each observation represents the average value for 99 different mean and standard deviation readings (of a collection of feature readings from a Samsung wearable device) for a given subject performing a given activity.

The data component of the file is proceeded at row 1 by a comma separated list of the variable names within the file.

The data is contained within the file newData.txt. Values within the file are comma separated, with textual data enclosed in double quotes.

The file can be read in R with either the read.table or read.csv commands.

The file contents are as follows:

Subject - 1

Numerical identifier for the subject performing the activity – i.e. the person using the wearable Samsung device.

1..30

ActivityName – varchar(19)

The type of activity undertaken.

WALKING

WALKING_UPSTAIRS

WALKING_DOWNSTAIRS

SITTING

STANDING

LAYING

tBodyAcc- mean() – x numeric 15 decimal places

Average of all readings for this variable for this subject performing this activity.

tBodyAcc- mean() – y numeric 15 decimal places

Average of all readings for this variable for this subject performing this activity.

tBodyAcc- mean() – z numeric 15 decimal places

Average of all readings for this variable for this subject performing this activity.

tGravityAcc- mean() – x numeric 15 decimal places

Average of all readings for this variable for this subject performing this activity.

tGravityAcc- mean() – y numeric 15 decimal places

Average of all readings for this variable for this subject performing this activity.

tGravityAcc- mean() – z numeric 15 decimal places

Average of all readings for this variable for this subject performing this activity.

tBodyAccJerk- mean() – x numeric 15 decimal places

Average of all readings for this variable for this subject performing this activity.

tBodyAccJerk- mean() – y numeric 15 decimal places

Average of all readings for this variable for this subject performing this activity.

tBodyAccJerk- mean() – z numeric 15 decimal places

Average of all readings for this variable for this subject performing this activity.

tBodyGyro- mean() – x numeric 15 decimal places

Average of all readings for this variable for this subject performing this activity.

tBodyGyro- mean() – y numeric 15 decimal places

Average of all readings for this variable for this subject performing this activity.

tBodyGyro- mean() – z numeric 15 decimal places

Average of all readings for this variable for this subject performing this activity.

tBodyGyroJerk- mean() – x numeric 15 decimal places

Average of all readings for this variable for this subject performing this activity.

tBodyGyroJerk- mean() – y numeric 15 decimal places

Average of all readings for this variable for this subject performing this activity.

tBodyGyroJerk- mean() – z numeric 15 decimal places

Average of all readings for this variable for this subject performing this activity.

tBodyAccMag - mean() numeric 15 decimal places

Average of all readings for this variable for this subject performing this activity.

tGravityAccMag - mean() numeric 15 decimal places

Average of all readings for this variable for this subject performing this activity.

tBodyAccJerkMag - mean() numeric 15 decimal places

Average of all readings for this variable for this subject performing this activity.

tBodyGyroMag - mean() numeric 15 decimal places

Average of all readings for this variable for this subject performing this activity.

tBodyGyroJerkMag - mean() numeric 15 decimal places

Average of all readings for this variable for this subject performing this activity.

fBodyAcc - mean() – x numeric 15 decimal places

Average of all readings for this variable for this subject performing this activity.

fBodyAcc - mean() – y numeric 15 decimal places

Average of all readings for this variable for this subject performing this activity.

fBodyAcc - mean() – z numeric 15 decimal places

Average of all readings for this variable for this subject performing this activity.

fBodyAcc - meanFreq() – x numeric 15 decimal places

Average of all readings for this variable for this subject performing this activity.

fBodyAcc - meanFreq() – y numeric 15 decimal places

Average of all readings for this variable for this subject performing this activity.

fBodyAcc - meanFreq() – z numeric 15 decimal places

Average of all readings for this variable for this subject performing this activity.

fBodyAccJerk - mean() – x numeric 15 decimal places

Average of all readings for this variable for this subject performing this activity.

fBodyAccJerk - mean() – y numeric 15 decimal places

Average of all readings for this variable for this subject performing this activity.

fBodyAccJerk - mean() – z numeric 15 decimal places

Average of all readings for this variable for this subject performing this activity.

fBodyAccJerk - meanFreq() – x numeric 15 decimal places

Average of all readings for this variable for this subject performing this activity.

fBodyAccJerk - meanFreq() – y numeric 15 decimal places

Average of all readings for this variable for this subject performing this activity.

fBodyAccJerk - meanFreq() – z numeric 15 decimal places

Average of all readings for this variable for this subject performing this activity.

fBodyGyro - mean() – x numeric 15 decimal places

Average of all readings for this variable for this subject performing this activity.

fBodyGyro - mean() – y numeric 15 decimal places

Average of all readings for this variable for this subject performing this activity.

fBodyGyro - mean() – z numeric 15 decimal places

Average of all readings for this variable for this subject performing this activity.

fBodyGyro - meanFreq() – x numeric 15 decimal places

Average of all readings for this variable for this subject performing this activity.

fBodyGyro - meanFreq() – y numeric 15 decimal places

Average of all readings for this variable for this subject performing this activity.

fBodyGyro - meanFreq() – z numeric 15 decimal places

Average of all readings for this variable for this subject performing this activity.

fbodyBodyAccMag - mean() numeric 15 decimal places

Average of all readings for this variable for this subject performing this activity.

fbodyBodyAccMag - meanFreq() numeric 15 decimal places

Average of all readings for this variable for this subject performing this activity.

fbodyBodyAccJerkMag - mean() numeric 15 decimal places

Average of all readings for this variable for this subject performing this activity.

fbodyBodyAccJerkMag - meanFreq() numeric 15 decimal places

Average of all readings for this variable for this subject performing this activity.

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fbodBodyGyroAccMag - mean() numeric 15 decimal places

Average of all readings for this variable for this subject performing this activity.

fbodyBodyGyroAccMag - meanFreq() numeric 15 decimal places

Average of all readings for this variable for this subject performing this activity.

fbodyBodyGyroAccJerkMag - mean() numeric 15 decimal places

Average of all readings for this variable for this subject performing this activity.

fbodyBodyGyroAccJerkMag - meanFreq() numeric 15 decimal places

Average of all readings for this variable for this subject performing this activity.

Angle(tbodyAccMean,gravity) numeric 15 decimal places

Average of all readings for this variable for this subject performing this activity.

Angle(tbodyAccJerkMean,gravity) numeric 15 decimal places

Average of all readings for this variable for this subject performing this activity.

Angle(tbodyGyroMean,gravity) numeric 15 decimal places

Average of all readings for this variable for this subject performing this activity.

Angle(tbodyGyroJerkMean,gravity) numeric 15 decimal places

Average of all readings for this variable for this subject performing this activity.

Angle(X, gravityMean) numeric 15 decimal places

Average of all readings for this variable for this subject performing this activity.

Angle(Y, gravityMean) numeric 15 decimal places

Average of all readings for this variable for this subject performing this activity.

Angle(Z, gravityMean) numeric 15 decimal places

Average of all readings for this variable for this subject performing this activity.

END OF CODE BOOK