

Code Book for the “output_table.txt” output file produced by run_analysis.R

The output file is a 180-row by 49-column data frame containing summary statistics from the UCI Machine Learning Repository for the “Human Activity Recognition Using Smartphones Data Set”.

Additional information on the data set can be found at the following [link](#).

This project is based on the requirements of the October 2014 “Getting and Cleaning Data” Coursera online data science class.

Data description

Variable Name	Variable Description
SubjectActivity	Subject number (1-30) and Activity (6 kinds)
timeBodyAccelerationMeanX	X mean of time body acceleration
timeBodyAccelerationMeanY	Y mean of time body acceleration
timeBodyAccelerationMeanZ	Z mean of time body acceleration
timeBodyAccelerationStdX	X std. dev. of time body acceleration
timeBodyAccelerationStdY	Y std. dev. of time body acceleration
timeBodyAccelerationStdZ	Z std. dev. of time body acceleration
timeGravityAccelerationMeanX	X mean of time gravity acceleration
timeGravityAccelerationMeanY	Y mean of time gravity acceleration
timeGravityAccelerationMeanZ	Z mean of time gravity acceleration
timeGravityAccelerationStdX	X std. dev. of time gravity acceleration
timeGravityAccelerationStdY	Y std. dev. of time gravity acceleration
timeGravityAccelerationStdZ	Z std. dev. of time gravity acceleration
timeBodyAccelerationJerkMeanX	X mean of time body acceleration jerk
timeBodyAccelerationJerkMeanY	Y mean of time body acceleration jerk
timeBodyAccelerationJerkMeanZ	Z mean of time body acceleration jerk
timeBodyAccelerationJerkStdX	X std. dev. of time body acceleration jerk
timeBodyAccelerationJerkStdY	Y std. dev. of time body acceleration jerk
timeBodyAccelerationJerkStdZ	Z std. dev. of time body acceleration jerk
timeBodyGyroMeanX	X mean of time body gyro
timeBodyGyroMeanY	Y mean of time body gyro
timeBodyGyroMeanZ	Z mean of time body gyro
timeBodyGyroStdX	X std. dev. of time body gyro
timeBodyGyroStdY	Y std. dev. of time body gyro
timeBodyGyroStdZ	Z std. dev. of time body gyro
timeBodyGyroJerkMeanX	X mean of the time body gyro jerk
timeBodyGyroJerkMeanY	Y mean of the time body gyro jerk

timeBodyGyroJerkMeanZ	Z mean of the time body gyro jerk
timeBodyGyroJerkStdX	X std. dev. of the time body gyro jerk
timeBodyGyroJerkStdY	Y std. dev. of the time body gyro jerk
timeBodyGyroJerkStdZ	Z std. dev. of the time body gyro jerk
frequencyBodyAccelerationMeanX	X mean of frequency body acceleration
frequencyBodyAccelerationMeanY	Y mean of frequency body acceleration
frequencyBodyAccelerationMeanZ	Z mean of frequency body acceleration
frequencyBodyAccelerationStdX	X std. dev. of frequency body acceleration
frequencyBodyAccelerationStdY	Y std. dev. of frequency body acceleration
frequencyBodyAccelerationStdZ	Z std. dev. of frequency body acceleration
frequencyBodyAccelerationJerkMeanX	X mean of frequency body acceleration jerk
frequencyBodyAccelerationJerkMeanY	Y mean of frequency body acceleration jerk
frequencyBodyAccelerationJerkMeanZ	Z mean of frequency body acceleration jerk
frequencyBodyAccelerationJerkStdX	X std. dev. of frequency body acceleration jerk
frequencyBodyAccelerationJerkStdY	Y std. dev. of frequency body acceleration jerk
frequencyBodyAccelerationJerkStdZ	Z std. dev. of frequency body acceleration jerk
frequencyBodyGyroMeanX	X mean of frequency body gyro
frequencyBodyGyroMeanY	Y mean of frequency body gyro
frequencyBodyGyroMeanZ	Z mean of frequency body gyro
frequencyBodyGyroStdX	X std. dev. of frequency body gyro
frequencyBodyGyroStdY	Y std. dev. of frequency body gyro
frequencyBodyGyroStdZ	Z std. dev. of frequency body gyro