Code Book

Rachel Goldstein

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The output from the file "run_analysis.R" is the text file, "tidydata.txt". This file is a summary of a human activity recognition dataset collected using Samsung Galaxt smartphones for the UCI Machine Learning Repository. The file comprises of a dataset with the mean and standard deviation (STD) of measurements taken during six different activities. Activities were performed by 30 subjects.

Identifiers

Subject - volunteer ID

Activity - activity performed by the subject

Activities

Code	Activity
1	WALKING
2	WALKING UPSTAIRS
3	WALKING DOWNSTAIRS
4	SITTING
5	STANDING
6	LAYING

Measurements

- Subject
- Activity
- tBodyAcc.meanX
- tBodyAcc.meanY
- tBodyAcc.meanZ
- tGravityAcc.meanX

- tGravityAcc.meanY
- tGravityAcc.meanZ
- tBodyAccJerk.meanX
- tBodyAccJerk.meanY
- tBodyAccJerk.meanZ
- tBodyGyro.meanX
- tBodyGyro.meanY
- tBodyGyro.meanZ
- tBodyGyroJerk.meanX
- tBodyGyroJerk.meanY
- tBodyGyroJerk.meanZ
- tBodyAccMag.mean
- tGravityAccMag.mean
- tBodyAccJerkMag.mean
- tBodyGyroMag.mean
- tBodyGyroJerkMag.mean
- fBodyAcc.meanX
- fBodyAcc.meanY
- fBodyAcc.meanZ
- fBodyAcc.meanFreqX
- fBodyAcc.meanFreqY
- fBodyAcc.meanFreqZ
- fBodyAccJerk.meanX
- fBodyAccJerk.meanY
- fBodyAccJerk.meanZ
- fBodyAccJerk.meanFreqX
- fBodyAccJerk.meanFreqY
- fBodyAccJerk.meanFreqZ
- fBodyGyro.meanX
- fBodyGyro.meanY
- fBodyGyro.meanZ
- fBodyGyro.meanFreqX
- fBodyGyro.meanFreqY
- fBodyGyro.meanFreqZ
- fBodyAccMag.mean
- fBodyAccMag.meanFreq
- fBodyBodyAccJerkMag.mean
- fBodyBodyAccJerkMag.meanFreq
- fBodyBodyGyroMag.mean
- fBodyBodyGyroMag.meanFreq
- fBodyBodyGyroJerkMag.mean
- fBodyBodyGyroJerkMag.meanFreq

- angle.tBodyAccMean.gravity.
- angle.tBodyAccJerkMeangravityMean.
- angle.tBodyGyroMean.gravityMean.
- angle.tBodyGyroJerkMean.gravityMean.
- angle.X.gravityMean.
- angle.Y.gravityMean.
- angle.Z.gravityMean.
- tBodyAcc.stdX
- tBodyAcc.stdY
- tBodyAcc.stdZ
- tGravityAcc.stdX
- tGravityAcc.stdY
- tGravityAcc.stdZ
- tBodyAccJerk.stdX
- tBodyAccJerk.stdY
- tBodyAccJerk.stdZ
- tBodyGyro.stdX
- tBodyGyro.stdY
- tBodyGyro.stdZ
- tBodyGyroJerk.stdX
- tBodyGyroJerk.stdY
- tBodyGyroJerk.stdZ
- tBodyAccMag.std
- tGravityAccMag.std
- tBodyAccJerkMag.std
- tBodyGyroMag.std
- tBodyGyroJerkMag.std
- fBodyAcc.stdX
- fBodyAcc.stdY
- fBodyAcc.stdZ
- fBodyAccJerk.stdX
- fBodyAccJerk.stdY
- fBodyAccJerk.stdZ
- fBodyGyro.stdX
- fBodyGyro.stdY
- fBodyGyro.stdZ
- fBodyAccMag.std
- fBodyBodyAccJerkMag.std
- fBodyBodyGyroMag.std
- fBodyBodyGyroJerkMag.std