Getting and Reading data
Course Project

Code book

This is the code book describing the variables in the output file of run_analysis.R

The script modus operandi is described in the README.md file.

Subject: numeric- identifies the subject (numerical ID)who performed the activity

Activity: character- identifies the name of the activity performed

Each observation of The remaining columns corresponds to <u>the average</u> of the same variable from the sourced data (after merging training and test data), <u>aggregated by subject and by activity</u>.

The list of selected variables from the source data is as follows (please check "feature_info.txt" file from downloaded data for details about variables definition):

- tBodyAcc-mean()-X
- tBodyAcc-mean()-Y
- tBodyAcc-mean()-Z
- tGravityAcc-mean()-X
- tGravityAcc-mean()-Y
- tGravityAcc-mean()-Z
- tBodyAccJerk-mean()-X
- tBodyAccJerk-mean()-Y
- tBodyAccJerk-mean()-Z
- tBodyGyro-mean()-X
- tBodyGyro-mean()-Y
- tBodyGyro-mean()-Z
- tBodyGyroJerk-mean()-X
- tBodyGyroJerk-mean()-Y
- tBodyGyroJerk-mean()-Z
- tBodyAccMag-mean()
- tGravityAccMag-mean()
- tBodyAccJerkMag-mean()
- tBodyGyroMag-mean()
- tBodyGyroJerkMag-mean()
- fBodyAcc-mean()-X
- fBodyAcc-mean()-Y
- fBodyAcc-mean()-Z
- fBodyAcc-meanFreq()-X
- fBodyAcc-meanFreq()-Y
- fBodyAcc-meanFreq()-Z
- fBodyAccJerk-mean()-X

- fBodyAccJerk-mean()-Y
- fBodyAccJerk-mean()-Z
- fBodyAccJerk-meanFreq()-X
- fBodyAccJerk-meanFreq()-Y
- fBodyAccJerk-meanFreq()-Z
- fBodyGyro-mean()-X
- fBodyGyro-mean()-Y
- fBodyGyro-mean()-Z
- fBodyGyro-meanFreq()-X
- fBodyGyro-meanFreq()-Y
- fBodyGyro-meanFreq()-Z
- fBodyAccMag-mean()
- fBodyAccMag-meanFreq()
- fBodyBodyAccJerkMag-mean()
- fBodyBodyAccJerkMag-meanFreq()
- fBodyBodyGyroMag-mean()
- fBodyBodyGyroMag-meanFreq()
- fBodyBodyGyroJerkMag-mean()
- fBodyBodyGyroJerkMag-meanFreq()
- tBodyAcc-std()-X
- tBodyAcc-std()-Y
- tBodyAcc-std()-Z
- tGravityAcc-std()-X
- tGravityAcc-std()-Y
- tGravityAcc-std()-Z
- tBodyAccJerk-std()-X
- tBodyAccJerk-std()-Y
- tBodyAccJerk-std()-Z
- tBodyGyro-std()-X
- tBodyGyro-std()-Y
- tBodyGyro-std()-Z
- tBodyGyroJerk-std()-X
- tBodyGyroJerk-std()-Y
- tBodyGyroJerk-std()-Z
- tBodyAccMag-std()
- tGravityAccMag-std()
- tBodyAccJerkMag-std()
- tBodyGyroMag-std()
- tBodyGyroJerkMag-std()
- fBodyAcc-std()-X
- fBodyAcc-std()-Y
- fBodyAcc-std()-Z
- fBodyAccJerk-std()-X
- fBodyAccJerk-std()-Y
- fBodyAccJerk-std()-Z
- fBodyGyro-std()-X
- fBodyGyro-std()-Y
- fBodyGyro-std()-Z
- fBodyAccMag-std()

- fBodyBodyAccJerkMag-std()
- fBodyBodyGyroMag-std()
- fBodyBodyGyroJerkMag-std()