FUCI_HAR_Dataset_Tidy - Code Book

Summary

This code book summarizes the resulting data fields in FUCI_HAR_Dataset_Tidy.csv. The data derived from original dataset available https://d396qusza40orc.cloudfront.net/getdata%2Fprojectfiles%2FUCI%20HAR%20Dataset.zip.

A full description is available at the site where the data was obtained: http://archive.ics.uci.edu/ml/datasets/Human+Activity+Recognition+Using+Smartphones

Data dictionary

Activity - The activity during which measurements were done.

Possible Values:

```
WALKING
WALKING_UPSTAIRS
WALKING_DOWNSTAIRS
SITTING
STANDING
LAYING
```

Subject - An identifier of the subject who carried out the experiment.

Variable - The name of the variable (feature). See features.txt and features_info.txt of *UI HAR Dataset* for details.

Possible Values:

```
 [1] "fBodyAcc-mean()-X"                "fBodyAcc-mean()-Y"                "fBodyAcc-mean()-Z"
 [4] "fBodyAcc-meanFreq()-X"            "fBodyAcc-meanFreq()-Y"            "fBodyAcc-meanFreq()-Z"
 [7] "fBodyAcc-std()-X"                 "fBodyAcc-std()-Y"                 "fBodyAcc-std()-Z"
[10] "fBodyAccJerk-mean()-X"            "fBodyAccJerk-mean()-Y"            "fBodyAccJerk-mean()-Z"
[13] "fBodyAccJerk-meanFreq()-X"        "fBodyAccJerk-meanFreq()-Y"        "fBodyAccJerk-meanFreq()-Z"
[16] "fBodyAccJerk-std()-X"             "fBodyAccJerk-std()-Y"             "fBodyAccJerk-std()-Z"
[19] "fBodyAccMag-mean()"               "fBodyAccMag-meanFreq()"           "fBodyAccMag-std()"
[22] "fBodyBodyAccJerkMag-mean()"       "fBodyBodyAccJerkMag-meanFreq()"   "fBodyBodyAccJerkMag-std()"
[25] "fBodyBodyGyroJerkMag-mean()"      "fBodyBodyGyroJerkMag-meanFreq()"  "fBodyBodyGyroJerkMag-std()"
[28] "fBodyBodyGyroMag-mean()"          "fBodyBodyGyroMag-meanFreq()"      "fBodyBodyGyroMag-std()"
[31] "fBodyGyro-mean()-X"               "fBodyGyro-mean()-Y"               "fBodyGyro-mean()-Z"
[34] "fBodyGyro-meanFreq()-X"           "fBodyGyro-meanFreq()-Y"           "fBodyGyro-meanFreq()-Z"
[37] "fBodyGyro-std()-X"                "fBodyGyro-std()-Y"                "fBodyGyro-std()-Z"
[40] "tBodyAcc-mean()-X"                "tBodyAcc-mean()-Y"                "tBodyAcc-mean()-Z"
[43] "tBodyAcc-std()-X"                 "tBodyAcc-std()-Y"                 "tBodyAcc-std()-Z"
[46] "tBodyAccJerk-mean()-X"            "tBodyAccJerk-mean()-Y"            "tBodyAccJerk-mean()-Z"
[49] "tBodyAccJerk-std()-X"             "tBodyAccJerk-std()-Y"             "tBodyAccJerk-std()-Z"
[52] "tBodyAccJerkMag-mean()"           "tBodyAccJerkMag-std()"            "tBodyAccMag-mean()"
[55] "tBodyAccMag-std()"                "tBodyGyro-mean()-X"               "tBodyGyro-mean()-Y"
[58] "tBodyGyro-mean()-Z"               "tBodyGyro-std()-X"                "tBodyGyro-std()-Y"
```

```
[61] "tBodyGyro-std()-Z"              "tBodyGyroJerk-mean()-X"          "tBodyGyroJerk-mean()-Y"
[64] "tBodyGyroJerk-mean()-Z"         "tBodyGyroJerk-std()-X"           "tBodyGyroJerk-std()-Y"
[67] "tBodyGyroJerk-std()-Z"          "tBodyGyroJerkMag-mean()"         "tBodyGyroJerkMag-std()"
[70] "tBodyGyroMag-mean()"            "tBodyGyroMag-std()"              "tGravityAcc-mean()-X"
[73] "tGravityAcc-mean()-Y"           "tGravityAcc-mean()-Z"            "tGravityAcc-std()-X"
[76] "tGravityAcc-std()-Y"            "tGravityAcc-std()-Z"             "tGravityAccMag-mean()"
[79] "tGravityAccMag-std()"
```

mean(Value) - Mean value of corresponding meassurement which is done by particular *Subject* for particular *Activity*