

Data Dictionary - 2012 Human Activity Recognition Using Smartphones

subject	2
Subject Id	
1..30 Unique identifier of study participant	
activity	18
Name of recorded activity	
WALKING	
WALKING_UPSTAIRS	
WALKING_DOWNSTAIRS	
SITTING	
STANDING	
LAYING	
tBodyAcc-mean()-X	12
Time domain body acceleration signal mean - X-axis	
-1..1 Mean of linear acceleration mean	
tBodyAcc-mean()-Y	12
Time domain body acceleration signal mean - Y-axis	
-1..1 Mean of linear acceleration mean	
tBodyAcc-mean()-Z	12
Time domain body acceleration signal mean - Z-axis	
-1..1 Mean of linear acceleration mean	
tBodyAcc-std()-X	12
Time domain body acceleration signal standard deviation - X-axis	
-1..1 Mean of linear acceleration standard deviation	
tBodyAcc-std()-Y	12
Time domain body acceleration signal standard deviation - Y-axis	
-1..1 Mean of linear acceleration standard deviation	
tBodyAcc-std()-Z	12
Time domain body acceleration signal standard deviation- Z-axis	
-1..1 Mean of linear acceleration standard deviation	
tGravityAcc-mean()-X	12
Time domain gravity acceleration signal mean - X-axis	
-1..1 Mean of linear acceleration mean	
tGravityAcc-mean()-Y	12
Time domain gravity acceleration signal mean - Y-axis	
-1..1 Mean of linear acceleration mean	
tGravityAcc-mean()-Z	12

Time domain gravity acceleration signal mean - Z-axis
-1..1 Mean of linear acceleration mean

tGravityAcc-std()-X 12
Time domain gravity acceleration signal standard deviation - X-axis
-1..1 Mean of linear acceleration standard deviation

tGravityAcc-std()-Y 12
Time domain gravity acceleration signal standard deviation - Y-axis
-1..1 Mean of linear acceleration standard deviation

tGravityAcc-std()-Z 12
Time domain gravity acceleration signal standard deviation - Z-axis
-1..1 Mean of linear acceleration standard deviation

tBodyAccJerk-mean()-X 12
Time domain body acceleration jerk signal mean - X-axis
-1..1 Mean of linear acceleration mean

tBodyAccJerk-mean()-Y 12
Time domain body acceleration jerk signal mean - Y-axis
-1..1 Mean of linear acceleration mean

tBodyAccJerk-mean()-Z 12
Time domain body acceleration jerk signal mean - Z-axis
-1..1 Mean of linear acceleration mean

tBodyAccJerk-std()-X 12
Time domain body acceleration jerk signal standard deviation - X-axis
-1..1 Mean of linear acceleration standard deviation

tBodyAccJerk-std()-Y 12
Time domain body acceleration jerk signal standard deviation - Y-axis
-1..1 Mean of linear acceleration standard deviation

tBodyAccJerk-std()-Z 12
Time domain body acceleration jerk signal standard deviation - Z-axis
-1..1 Mean of linear acceleration standard deviation

tBodyGyro-mean()-X 12
Time domain body gyroscope signal mean - X-axis
-1..1 Mean of linear acceleration mean

tBodyGyro-mean()-Y 12
Time domain body gyroscope signal mean - Y-axis
-1..1 Mean of linear acceleration mean

tBodyGyro-mean()-Z 12

Time domain body gyroscope signal mean - Z-axis
-1..1 Mean of linear acceleration mean

tBodyGyro-std()-X 12
Time domain body gyroscope signal standard deviation - X-axis
-1..1 Mean of linear acceleration standard deviation

tBodyGyro-std()-Y 12
Time domain body gyroscope signal standard deviation - Y-axis
-1..1 Mean of linear acceleration standard deviation

tBodyGyro-std()-Z 12
Time domain body gyroscope signal standard deviation - Z-axis
-1..1 Mean of linear acceleration standard deviation

tBodyGyroJerk-mean()-X 12
Time domain body gyroscope jerk signal mean - X-axis
-1..1 Mean of linear acceleration mean

tBodyGyroJerk-mean()-Y 12
Time domain body gyroscope jerk signal mean - Y-axis
-1..1 Mean of linear acceleration mean

tBodyGyroJerk-mean()-Z 12
Time domain body gyroscope jerk signal mean - Z-axis
-1..1 Mean of linear acceleration mean

tBodyGyroJerk-std()-X 12
Time domain body gyroscope jerk signal standard deviation - X-axis
-1..1 Mean of linear acceleration standard deviation

tBodyGyroJerk-std()-Y 12
Time domain body gyroscope jerk signal standard deviation - Y-axis
-1..1 Mean of linear acceleration standard deviation

tBodyGyroJerk-std()-Z 12
Time domain body gyroscope jerk signal standard deviation - Z-axis
-1..1 Mean of linear acceleration standard deviation

tBodyAccMag-mean() 12
Time domain body acceleration signal magnitude mean
-1..1 Mean of linear acceleration mean

tBodyAccMag-std() 12
Time domain body acceleration signal magnitude standard deviation
-1..1 Mean of linear acceleration standard deviation

tGravityAccMag-mean() 12

Time domain gravity acceleration signal magnitude mean
-1..1 Mean of linear acceleration mean

tGravityAccMag-std() 12
Time domain gravity acceleration signal magnitude standard deviation
-1..1 Mean of linear acceleration standard deviation

tBodyAccJerkMag-mean() 12
Time domain body acceleration jerk signal magnitude mean
-1..1 Mean of linear acceleration mean

tBodyAccJerkMag-std() 12
Time domain body acceleration jerk signal magnitude standard deviation
-1..1 Mean of linear acceleration standard deviation

tBodyGyroMag-mean() 12
Time domain body gyrometer signal magnitude mean
-1..1 Mean of linear acceleration mean

tBodyGyroMag-std() 12
Time domain body gyrometer signal magnitude standard deviation
-1..1 Mean of linear acceleration standard deviation

tBodyGyroJerkMag-mean() 12
Time domain body gyrometer jerk signal magnitude mean
-1..1 Mean of linear acceleration mean

tBodyGyroJerkMag-std() 12
Time domain body gyrometer jerk signal magnitude standard deviation
-1..1 Mean of linear acceleration standard deviation

fBodyAcc-mean()-X 12
Frequency domain body acceleration signal mean - X-axis
-1..1 Mean of linear acceleration mean

fBodyAcc-mean()-Y 12
Frequency domain body acceleration signal mean - Y-axis
-1..1 Mean of linear acceleration mean

fBodyAcc-mean()-Z 12
Frequency domain body acceleration signal mean - Z-axis
-1..1 Mean of linear acceleration mean

fBodyAcc-std()-X 12
Frequency domain body acceleration signal standard deviation - X-axis
-1..1 Mean of linear acceleration standard deviation

fBodyAcc-std()-Y 12

Frequency domain body acceleration signal standard deviation - Y-axis
-1..1 Mean of linear acceleration standard deviation

fBodyAcc-std()-Z 12
Frequency domain body acceleration signal standard deviation - Z-axis
-1..1 Mean of linear acceleration standard deviation

fBodyAccJerk-mean()-X 12
Frequency domain body acceleration jerk signal mean - X-axis
-1..1 Mean of linear acceleration mean

fBodyAccJerk-mean()-Y 12
Frequency domain body acceleration jerk signal mean - Y-axis
-1..1 Mean of linear acceleration mean

fBodyAccJerk-mean()-Z 12
Frequency domain body acceleration jerk signal mean - Z-axis
-1..1 Mean of linear acceleration mean

fBodyAccJerk-std()-X 12
Frequency domain body acceleration jerk signal standard deviation -
X-axis
-1..1 Mean of linear acceleration standard deviation

fBodyAccJerk-std()-Y 12
Frequency domain body acceleration jerk signal standard deviation -
Y-axis
-1..1 Mean of linear acceleration standard deviation

fBodyAccJerk-std()-Z 12
Frequency domain body acceleration jerk signal standard deviation -
Z-axis
-1..1 Mean of linear acceleration standard deviation

fBodyGyro-mean()-X 12
Frequency domain body gyrometer signal mean - X-axis
-1..1 Mean of linear acceleration mean

fBodyGyro-mean()-Y 12
Frequency domain body gyrometer signal mean - Y-axis
-1..1 Mean of linear acceleration mean

fBodyGyro-mean()-Z 12
Frequency domain body gyrometer signal mean - Z-axis
-1..1 Mean of linear acceleration mean

fBodyGyro-std()-X 12
Frequency domain body gyrometer signal standard deviation - X-axis

-1..1 Mean of linear acceleration standard deviation

fBodyGyro-std()-Y 12
Frequency domain body gyrometer signal standard deviation - Y-axis
-1..1 Mean of linear acceleration standard deviation

fBodyGyro-std()-Z 12
Frequency domain body gyrometer signal standard deviation - Z-axis
-1..1 Mean of linear acceleration standard deviation

fBodyAccMag-mean() 12
Frequency domain body acceleration signal magnitude mean
-1..1 Mean of linear acceleration mean

fBodyAccMag-std() 12
Frequency domain body acceleration signal magnitude standard deviation
-1..1 Mean of linear acceleration standard deviation

fBodyBodyAccJerkMag-mean() 12
Frequency domain body acceleration jerk signal mean
-1..1 Mean of linear acceleration mean

fBodyBodyAccJerkMag-std() 12
Frequency domain body acceleration jerk signal standard deviation
-1..1 Mean of linear acceleration standard deviation

fBodyBodyGyroMag-mean() 12
Frequency domain body gyrometer signal magnitude mean
-1..1 Mean of linear acceleration mean

fBodyBodyGyroMag-std() 12
Frequency domain body gyrometer signal magnitude standard deviation
-1..1 Mean of linear acceleration standard deviation

fBodyBodyGyroJerkMag-mean() 12
Frequency domain body gyrometer jerk signal magnitude mean
-1..1 Mean of linear acceleration mean

fBodyBodyGyroJerkMag-std() 12
Frequency domain body gyrometer jerk signal magnitude standard deviation
-1..1 Mean of linear acceleration standard deviation