Code book for summary.df (produced by run_analysis.R)

subject

Subject code

0..30 Unique identifier for each of the tested subjects

activity

Activity completed by subject

WALKING
WALKING_UPSTAIRS
WALKING_DOWNSTAIRS
SITTING
STANDING
LAYING

The remaining variables are averages of all the observations found for each subject in each activity. They all have values between -1 and 1.

tBodyAccmeanX

Mean of the time domain values of the body acceleration in the *x*-direction

tBodyAccmeanY

Mean of the time domain values of the body acceleration in the *y*-direction

tBodyAccmeanZ

Mean of the time domain values of the body acceleration in the *z*-direction

tBodyAccstdX

Standard deviation of the time domain values of the body acceleration in the *x*-direction

tBodyAccstdY

Standard deviation of the time domain values of the body acceleration in the *y*-direction

tBodyAccstdZ

Standard deviation of the time domain values of the body acceleration in the *z*-direction

tGravityAccmeanX

Mean of the time domain values of the gravity acceleration in the *x*-direction

tGravityAccmeanY

Mean of the time domain values of the gravity acceleration in the *y*-direction

tGravityAccmeanZ
Mean of the time domain values of the gravity acceleration in the *z*-direction

tGravityAccstdX
Standard deviation of the time domain values of the gravity acceleration in the *x*-direction

tGravityAccstdY
Standard deviation of the time domain values of the gravity acceleration in the *y*-direction

tGravityAccstdZ
Standard deviation of the time domain values of the gravity acceleration in the *z*-direction

tBodyAccJerkmeanX
Mean of the time domain values of the body acceleration jerk in the *x*-direction

tBodyAccJerkmeanY
Mean of the time domain values of the body acceleration jerk in the *y*-direction

tBodyAccJerkmeanZ
Mean of the time domain values of the body acceleration jerk in the *z*-direction

tBodyAccJerkstdX
Standard deviation of the time domain values of the body acceleration jerk in the *x*-direction

tBodyAccJerkstdY
Standard deviation of the time domain values of the body acceleration jerk in the *y*-direction

tBodyAccJerkstdZ
Standard deviation of the time domain values of the body acceleration jerk in the *z*-direction

tBodyGyromeanX
Mean of the time domain values of the body gyroscope signals in the *x*-direction

tBodyGyromeanY

Mean of the time domain values of the body gyroscope signals in the *y*-direction

tBodyGyromeanZ

Mean of the time domain values of the body gyroscope signals in the *z*-direction

tBodyGyrostdX

Standard deviation of the time domain values of the body gyroscope signals in the *x*-direction

tBodyGyrostdY

Standard deviation of the time domain values of the body gyroscope signals in the *y*-direction

tBodyGyrostdZ

Standard deviation of the time domain values of the body gyroscope signals in the *z*-direction

tBodyGyroJerkmeanX

Mean of the time domain values of the body gyroscope signal jerk in the *x*-direction

tBodyGyroJerkmeanY

Mean of the time domain values of the body gyroscope signal jerk in the *y*-direction

tBodyGyroJerkmeanZ

Mean of the time domain values of the body gyroscope signal jerk in the *z*-direction

tBodyGyroJerkstdX

Standard deviation of the time domain values of the body gyroscope signal jerk in the *x*-direction

tBodyGyroJerkstdY

Standard deviation of the time domain values of the body gyroscope signal jerk in the *y*-direction

tBodyGyroJerkstdZ

Standard deviation of the time domain values of the body gyroscope signal jerk in the *z*-direction

tBodyAccMagmean
Mean of the magnitudes of the time domain vector of the body acceleration

tBodyAccMagstd
Standard deviation of the magnitudes of the time domain vector of the body acceleration

tGravityAccMagmean
Mean of the magnitudes of the time domain vector of the gravity acceleration

tGravityAccMagstd
Standard deviation of the magnitudes of the time domain vector of the gravity acceleration

tBodyAccJerkMagmean
Mean of the magnitudes of the time domain vector of the body acceleration jerk

tBodyAccJerkMagstd
Standard deviation of the magnitudes of the time domain vector of the body acceleration jerk

tBodyGyroMagmean
Mean of the magnitudes of the time domain vector of the body gyroscope signal

tBodyGyroMagstd
Standard deviation of the magnitudes of the time domain vector of the body gyroscope signal

tBodyGyroJerkMagmean
Mean of the magnitudes of the time domain vector of the body gyroscope signal jerk

tBodyGyroJerkMagstd
Standard deviation of the magnitudes of the time domain vector of the body gyroscope signal jerk

fBodyAccmeanX
Mean of the frequency domain values of the body acceleration in the *x*-direction

fBodyAccmeanY
Mean of the frequency domain values of the body acceleration in the *y*-direction

fBodyAccmeanZ

Mean of the frequency domain values of the body acceleration in the *z*-direction

fBodyAccstdX

Standard deviation of the frequency domain values of the body acceleration in the *x*-direction

fBodyAccstdY

Standard deviation of the frequency domain values of the body acceleration in the *y*-direction

fBodyAccstdZ

Standard deviation of the frequency domain values of the body acceleration in the *z*-direction

fBodyAccJerkmeanX

Mean of the frequency domain values of the body acceleration jerk in the *x*-direction

fBodyAccJerkmeanY

Mean of the frequency domain values of the body acceleration jerk in the *y*-direction

fBodyAccJerkmeanZ

Mean of the frequency domain values of the body acceleration jerk in the *z*-direction

fBodyAccJerkstdX

Standard deviation of the frequency domain values of the body acceleration - jerk in the *x*-direction

fBodyAccJerkstdY

Standard deviation of the frequency domain values of the body acceleration - jerk in the *y*-direction

fBodyAccJerkstdZ

Standard deviation of the frequency domain values of the body acceleration - jerk in the *z*-direction

fBodyGyromeanX

Mean of the frequency domain values of the body gyroscope signal in the *x*-direction

fBodyGyromeanY

Mean of the frequency domain values of the body gyroscope signal in the *y*-direction

fBodyGyromeanZ

Mean of the frequency domain values of the body gyroscope signal in the *z*-direction

fBodyGyrostdX

Standard deviation of the frequency domain values of the body gyroscope signal in the *x*-direction

fBodyGyrostdY

Standard deviation of the frequency domain values of the body gyroscope signal in the *y*-direction

fBodyGyrostdZ

Standard deviation of the frequency domain values of the body gyroscope signal in the *z*-direction

fBodyAccMagmean

Mean of the magnitudes of the frequency domain vector of the body acceleration

fBodyAccMagstd

Standard deviation of the magnitudes of the frequency domain vector of the body acceleration

fBodyBodyAccJerkMagmean

Mean of the magnitudes of the frequency domain vector of the body acceleration jerk

fBodyBodyAccJerkMagstd

Standard deviation of the magnitudes of the frequency domain vector of the body acceleration jerk

fBodyBodyGyroMagmean

Mean of the magnitudes of the frequency domain vector of the body gyroscope signal

fBodyBodyGyroMagstd

Standard deviation of the magnitudes of the frequency domain vector of the body gyroscope signal

fBodyBodyGyroJerkMagmean

Mean of the magnitudes of the frequency domain vector of the body gyroscope signal jerk

fBodyBodyGyroJerkMagstd

Standard deviation of the magnitudes of the frequency domain vector of the body gyroscope signal jerk