

## Data dictionary

subject	Volunteer ID	1-30
activity	Performed activity walking, walking_downstair, walking_upstair, sitting, standing, laying	

40 time domain signal variables are listed below:

timeBodyAccmeanX	Average of body acceleration signal in X axis
timeBodyAccmeanY	Average of body acceleration signal in Y axis
timeBodyAccmeanZ	Average of body acceleration signal in Z axis
timeBodyAccstdX	Standard derivation of body acceleration signal in X axis
timeBodyAccstdY	Standard derivation of body acceleration signal in Y axis
timeBodyAccstdZ	Standard derivation of body acceleration signal in Z axis
timeGravityAccmeanX	Average of gravity acceleration signal in X axis
timeGravityAccmeanY	Average of gravity acceleration signal in Y axis
timeGravityAccmeanZ	Average of gravity acceleration signal in Z axis
timeGravityAccstdX	Standard derivation of gravity acceleration signal in X axis
timeGravityAccstdY	Standard derivation of gravity acceleration signal in Y axis
timeGravityAccstdZ	Standard derivation of gravity acceleration signal in Y axis
timeBodyAccJerkmeanX	Average of Jerk signal for gravity acceleration in X axis
timeBodyAccJerkmeanY	Average of Jerk signal for gravity acceleration in Y axis
timeBodyAccJerkmeanZ	Average of Jerk signal for gravity acceleration in Z axis
timeBodyAccJerkstdX	Standard derivation of Jerk signal for body acceleration in X axis
timeBodyAccJerkstdY	Standard derivation of Jerk signal for body acceleration in Y axis
timeBodyAccJerkstdZ	Standard derivation of Jerk signal for body acceleration in Z axis
timeBodyGyromeanX	Average of body gyroscopic signal in X axis
timeBodyGyromeanY	Average of body gyroscopic signal in Y axis

timeBodyGyromeanZ	Average of body gyroscopic signal in Z axis
timeBodyGyrostdX	Standard derivation of body gyroscopic signal in X axis
timeBodyGyrostdY	Standard derivation of body gyroscopic signal in Y axis
timeBodyGyrostdZ	Standard derivation of body gyroscopic signal in Z axis
timeBodyGyroJerkmeanX	Average of Jerk signal of body gyroscope in X axis
timeBodyGyroJerkmeanY	Average of Jerk signal of body gyroscope in Y axis
timeBodyGyroJerkmeanZ	Average of Jerk signal of body gyroscope in Z axis
timeBodyGyroJerkstdX	Standard derivation of Jerk signal of body gyroscope in X axis
timeBodyGyroJerkstdY	Standard derivation of Jerk signal of body gyroscope in Y axis
timeBodyGyroJerkstdZ	Standard derivation of Jerk signal of body gyroscope in Z axis
timeBodyAccMagmean	Average of magnitude signal of body acceleration
timeBodyAccMagstd	Standard derivation of magnitude signal of body acceleration
timeGravityAccMagmean	Average of magnitude signal of gravity acceleration
timeGravityAccMagstd	Standard derivation of magnitude signal of gravity acceleration
timeBodyAccJerkMagmean	Average of magnitude of Jerk signal of body acceleration
timeBodyAccJerkMagstd	Standard derivation of magnitude of Jerk signal of body acceleration
timeBodyGyroMagmean	Average of magnitude of body gyroscope signal
timeBodyGyroMagstd	Standard derivation of magnitude of body gyroscope signal
timeBodyGyroJerkMagmean	Average of magnitude of Jerk signal of body gyroscope signal
timeBodyGyroJerkMagstd	Standard derivation of magnitude of Jerk signal of body gyroscope

## 26 frequency domain signal variables are listed below:

freqBodyAccmeanX	Average of body acceleration signal in X axis
freqBodyAccmeanY	Average of body acceleration signal in Y axis
freqBodyAccmeanZ	Average of body acceleration signal in Z axis

freqBodyAccstdX	Standard derivation of body acceleration signal in X axis
freqBodyAccstdY	Standard derivation of body acceleration signal in Y axis
freqBodyAccstdZ	Standard derivation of body acceleration signal in Z axis
freqBodyAccJerkmeanX	Average of Jerk signal for body acceleration in X axis
freqBodyAccJerkmeanY	Average of Jerk signal for body acceleration in Y axis
freqBodyAccJerkmeanZ	Average of Jerk signal for body acceleration in Z axis
freqBodyAccJerkstdX	Standard derivation of Jerk signal for body acceleration in X axis
freqBodyAccJerkstdY	Standard derivation of Jerk signal for body acceleration in Y axis
freqBodyAccJerkstdZ	Standard derivation of Jerk signal for body acceleration in Z axis
freqBodyGyromeanX	Average of body gyroscopic signal in X axis
freqBodyGyromeanY	Average of body gyroscopic signal in Y axis
freqBodyGyromeanZ	Average of body gyroscopic signal in Z axis
freqBodyGyrostdX	Standard derivation of body gyroscopic signal in X axis
freqBodyGyrostdY	Standard derivation of body gyroscopic signal in Y axis
freqBodyGyrostdZ	Standard derivation of body gyroscopic signal in Z axis
freqBodyAccMagmean	Average of magnitude of body acceleration signal
freqBodyAccMagstd	Standard derivation of magnitude of body acceleration signal
freqBodyAccJerkMagmean	mean frequency of Jerk signal of body acceleration
freqBodyAccJerkMagstd	Standard derivation of magnitude of body acceleration signal
freqBodyGyroMagmean	average of magnitude of body gyroscopic signal
freqBodyGyroMagstd	Standard derivation of magnitude of body gyroscopic signal
freqBodyGyroJerkMagmean	average of Jerk magnitude of body gyroscopic signal
freqBodyGyroJerkMagstd	Standard derivation of Jerk magnitude of body gyroscopic signal