DATA DICTIONARY – 2012 HUMAN ACTIVITY RECOGNITION

Note:

Each subject is given a unique identifier from 1 to 30

______ tBodyAcc.mean...X "Mean body accel. signals in X-dir (in hz)" Storage mode: double Measurement: interval Min: 0.222 Max: 0.301 Mean: 0.274 Std.Dev.: 0.012 Skewness: -1.055 Kurtosis: 2.329 _______ ========== tBodyAcc.mean...Y "Mean body accel. signals in Y-dir (in hz)" Storage mode: double Measurement: interval Min: -0.041 Max: -0.001 Mean: -0.018 Std.Dev.: 0.006 Skewness: -0.537 Kurtosis: 1.612 ______

tBodyAcc.mean...Z

"Mean body accel. signals in Z-dir (in hz)"	
Storage mode: double Measurement: interval	
ivieasurement. Interval	
Min: -0.153	
Max: -0.075	
Mean: -0.109 Std.Dev.: 0.010	
Skewness: -1.115	
Kurtosis: 4.910	
=======================================	==
tBodyAcc.stdX	
"Standard deviation hady speed signals in V dir (in ha)"	
"Standard deviation body accel. signals in X-dir (in hz)"	
Character and devided	
Storage mode: double Measurement: interval	
Wedsarement. Interval	
Min: -0.996	
Max: 0.627	
Mean: -0.558	
Std.Dev.: 0.450 Skewness: 0.438	
Kurtosis: -1.216	
	==
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tBodyAcc.stdY	
"Standard deviation body accel. signals in Y-dir (in hz)"	
Storage mode: double	

Measurement: interval Min: -0.990 Max: 0.617 Mean: -0.460 Std.Dev.: 0.495 Skewness: 0.235 Kurtosis: -1.586 ______ ========== tBodyAcc.std...Z "Standard deviation body accel. signals in Z-dir (in hz)" Storage mode: double Measurement: interval Min: -0.988 Max: 0.609 Mean: -0.576 Std.Dev.: 0.394 Skewness: 0.451 Kurtosis: -1.026 ==========

tGravityAcc.mean...X

"Mean gravity accel. signals in X-dir (in hz)"

Storage mode: double Measurement: interval

Min: -0.680 Max: 0.975 Mean: 0.697 Std.Dev.: 0.486 ========== tGravityAcc.mean...Y "Mean gravity accel. signals in Y-dir (in hz)" Storage mode: double Measurement: interval Min: -0.480 Max: 0.957 Mean: -0.016 Std.Dev.: 0.344 Skewness: 1.427 Kurtosis: 1.051 ______ ========== tGravityAcc.mean...Z "Mean gravity accel. signals in Z-dir (in hz)" Storage mode: double Measurement: interval Min: -0.495 Max: 0.958

Skewness: 1.145 Kurtosis: 1.208

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Mean: 0.074 Std.Dev.: 0.288

Skewness: -1.811 Kurtosis: 1.452

tGravityAcc.stdX
"Standard deviation gravity accel. signals in X-dir (in hz)"
Storage mode: double Measurement: interval
Min: -0.997 Max: -0.830 Mean: -0.964 Std.Dev.: 0.025 Skewness: 1.669 Kurtosis: 5.051
tGravityAcc.stdY "Standard deviation gravity accel. signals in Y-dir (in hz)"
Storage mode: double Measurement: interval
Min: -0.994 Max: -0.644 Mean: -0.952 Std.Dev.: 0.033 Skewness: 4.817 Kurtosis: 42.501
=======================================
tGravityAcc.stdZ
"Standard deviation gravity accel. signals in Z-dir (in hz)"

Storage mode: double Measurement: interval

Min: -0.991 Max: -0.610 Mean: -0.936 Std.Dev.: 0.040 Skewness: 3.248 Kurtosis: 22.288

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tBodyAccJerk.mean...X

"Mean body accel. Jerk signals in X-dir (in hz)"

Storage mode: double Measurement: interval

Min: 0.043 Max: 0.130 Mean: 0.079 Std.Dev.: 0.013 Skewness: 0.821 Kurtosis: 2.560

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tBodyAccJerk.mean...Y

"Mean body accel. Jerk signals in Y-dir (in hz)"

Storage mode: double Measurement: interval

Min: -0.039 Max: 0.057 Mean: 0.008 Std.Dev.: 0.014 Skewness: -0.192 Kurtosis: 1.606

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tBodyAccJerk.mean...Z

"Mean body accel. Jerk signals in Z-dir (in hz)"

Storage mode: double Measurement: interval

Min: -0.067 Max: 0.038 Mean: -0.005 Std.Dev.: 0.013 Skewness: -0.835 Kurtosis: 3.525

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tBodyAccJerk.std...X

"Standard deviation body accel. Jerk signals in X-dir (in hz)"

Storage mode: double Measurement: interval

Min: -0.995 Max: 0.544 Mean: -0.595 Std.Dev.: 0.416 Skewness: 0.424 Kurtosis: -1.273

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tBodyAccJerk.std...Y
 "Standard deviation body accel. Jerk signals in Y-dir (in hz)"
 Storage mode: double
 Measurement: interval
    Min: -0.990
    Max: 0.355
    Mean: -0.565
  Std.Dev.: 0.432
  Skewness: 0.362
  Kurtosis: -1.450
______
==========
 tBodyAccJerk.std...Z
 "Standard deviation body accel. Jerk signals in Z-dir (in hz)"
 Storage mode: double
 Measurement: interval
    Min: -0.993
    Max: 0.031
    Mean: -0.736
  Std.Dev.: 0.276
  Skewness: 0.679
  Kurtosis: -0.681
______
==========
 tBodyGyro.mean...X
 "Mean body gyro signals in X-dir (in hz)"
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Storage mode: double
Measurement: interval

Min: -0.206
Max: 0.193
Mean: -0.032
Std.Dev.: 0.054
Skewness: 0.341
Kurtosis: 2.391

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tBodyGyro.mean...Y

"Mean body gyro signals in Y-dir (in hz)"

Storage mode: double Measurement: interval

Min: -0.204 Max: 0.027 Mean: -0.074 Std.Dev.: 0.035 Skewness: -0.286 Kurtosis: 2.070

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tBodyGyro.mean...Z

"Mean body gyro signals in Z-dir (in hz)"

Storage mode: double Measurement: interval

Min: -0.072 Max: 0.179 Mean: 0.087 Std.Dev.: 0.036 Skewness: -0.781 Kurtosis: 3.224

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tBodyGyro.std...X

"Standard deviation body gyro signals in X-dir (in hz)"

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Storage mode: double Measurement: interval

Min: -0.994 Max: 0.268 Mean: -0.692 Std.Dev.: 0.290 Skewness: 0.391 Kurtosis: -1.073

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tBodyGyro.std...Y

"Standard deviation body gyro signals in Y-dir (in hz)"

Storage mode: double Measurement: interval

Min: -0.994 Max: 0.477 Mean: -0.653 Std.Dev.: 0.351 Skewness: 0.731 Kurtosis: -0.458 ______ tBodyGyro.std...Z "Standard deviation body gyro signals in Z-dir (in hz)" Storage mode: double Measurement: interval Min: -0.986 Max: 0.565 Mean: -0.616 Std.Dev.: 0.372 Skewness: 0.531 Kurtosis: -0.798 _______ ========== tBodyGyroJerk.mean...X "Mean body gyro Jerk signals in X-dir (in hz)" Storage mode: double Measurement: interval Min: -0.157 Max: -0.022 Mean: -0.096 Std.Dev.: 0.023 Skewness: 0.485 Kurtosis: 1.825 ______ ========== tBodyGyroJerk.mean...Y

"Mean body gyro Jerk signals in Y-dir (in hz)"

Storage mode: double Measurement: interval Min: -0.077 Max: -0.013 Mean: -0.043 Std.Dev.: 0.010 Skewness: -0.814 Kurtosis: 2.785 ______ tBodyGyroJerk.mean...Z "Mean body gyro Jerk signals in Z-dir (in hz)" Storage mode: double Measurement: interval Min: -0.092 Max: -0.007 Mean: -0.055 Std.Dev.: 0.012 Skewness: 0.258 Kurtosis: 1.867 ______ ========== tBodyGyroJerk.std...X "Standard deviation body gyro Jerk signals in X-dir (in hz)" Storage mode: double

Measurement: interval

Min: -0.997 Max: 0.179 Mean: -0.704 Std.Dev.: 0.300 Skewness: 0.554 Kurtosis: -0.916

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tBodyGyroJerk.std...Y

"Standard deviation body gyro Jerk signals in Y-dir (in hz)"

Storage mode: double Measurement: interval

Min: -0.997 Max: 0.296 Mean: -0.764 Std.Dev.: 0.267 Skewness: 1.156 Kurtosis: 1.064

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tBodyGyroJerk.std...Z

"Standard deviation body gyro Jerk signals in Z-dir (in hz)"

Storage mode: double Measurement: interval

Min: -0.995 Max: 0.193 Mean: -0.710 Std.Dev.: 0.304 Skewness: 0.649 Kurtosis: -0.652

tBodyAccMag.mean
"Mean magnitude of body accel. signals (in hz)"
Storage mode: double
Measurement: interval
Wicasarcinent. Interval
Min: -0.986
Max: 0.645
Mean: -0.497
Std.Dev.: 0.472
Skewness: 0.231
Kurtosis: -1.587
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"Standard deviation of magnitude of body accel. signals (in hz)"
, , , , , , , , , , , , , , , , , , ,
Storage mode: double
Measurement: interval
Min. 0.000
Min: -0.986 Max: 0.428
Mean: -0.544
Std.Dev.: 0.430
Skewness: 0.464
Kurtosis: -1.194
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tGravityAccMag.mean..

"Mean magnitude of gravity accel. signals (in hz)"	
Storage mode: double Measurement: interval	
Measurement: Interval	
Min: -0.986	
Max: 0.645	
Mean: -0.497	
Std.Dev.: 0.472	
Skewness: 0.231 Kurtosis: -1.587	
Kur (03)3. 1.307	
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tGravityAccMag.std	
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"Standard deviation of magnitude of gravity accel. signals (in hz)"	
Storage mode: double	
Measurement: interval	
Min: -0.986	
Max: 0.428	
Mean: -0.544	
Std.Dev.: 0.430	
Skewness: 0.464	
Kurtosis: -1.194	
	:========
=========	
ID-1 A-1 A-1 A-1 A-1 A-1 A-1 A-1 A-1 A-1 A	
tBodyAccJerkMag.mean	
"Mean magnitude of gravity accel. Jerk signals (in hz)"	

Storage mode: double Measurement: interval

Min: -0.993 Max: 0.434 Mean: -0.608 Std.Dev.: 0.395 Skewness: 0.360 Kurtosis: -1.388

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tBodyAccJerkMag.std..

"Standard deviation of magnitude of gravity accel. Jerk signals (in hz)"

Storage mode: double Measurement: interval

Min: -0.995 Max: 0.451 Mean: -0.584 Std.Dev.: 0.422 Skewness: 0.425 Kurtosis: -1.319

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tBodyGyroMag.mean..

"Mean magnitude of body gyro signals (in hz)"

Storage mode: double Measurement: interval

Min: -0.981 Max: 0.418 Mean: -0.565 Std.Dev.: 0.397 Skewness: 0.313

Kurtosis: -1.422 ______ tBodyGyroMag.std.. "Standard deviation of magnitude of body gyro signals (in hz)" Storage mode: double Measurement: interval Min: -0.981 Max: 0.300 Mean: -0.630 Std.Dev.: 0.336 Skewness: 0.482 Kurtosis: -1.027 _______ ========== tBodyGyroJerkMag.mean.. "Mean magnitude of body gyro Jerk signals (in hz)" Storage mode: double Measurement: interval Min: -0.997 Max: 0.088 Mean: -0.736 Std.Dev.: 0.276 Skewness: 0.660 Kurtosis: -0.646 ______

tBodyGyroJerkMag.std..

"Standard deviation of magnitude of body gyro Jerk signals (in hz)"
Storage mode: double Measurement: interval
Min: -0.998 Max: 0.250 Mean: -0.755 Std.Dev.: 0.265 Skewness: 1.016 Kurtosis: 0.546
=======================================
fBodyAcc.meanX
"FFT of tBodyAcc.meanX (in hz)"
Storage mode: double Measurement: interval
Min: -0.995 Max: 0.537 Mean: -0.576 Std.Dev.: 0.429 Skewness: 0.391 Kurtosis: -1.328
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fBodyAcc.meanY
"FFT of tBodyAcc.meanY (in hz)"

Storage mode: double

Measurement: interval Min: -0.989 Max: 0.524 Mean: -0.489 Std.Dev.: 0.479 Skewness: 0.259 Kurtosis: -1.567 ______ ========== fBodyAcc.mean...Z "FFT of tBodyAcc.mean...Z (in hz)" Storage mode: double Measurement: interval Min: -0.989 Max: 0.281 Mean: -0.630 Std.Dev.: 0.355 Skewness: 0.470 Kurtosis: -1.073 ========== fBodyAcc.std...X "FFT of tBodyAcc.std...X (in hz)"

Storage mode: double Measurement: interval

Min: -0.997 Max: 0.659 Mean: -0.552 Std.Dev.: 0.459 ========== fBodyAcc.std...Y "FFT of tBodyAcc.std...Y (in hz)" Storage mode: double Measurement: interval Min: -0.991 Max: 0.560 Mean: -0.481 Std.Dev.: 0.473 Skewness: 0.244 Kurtosis: -1.566 ______ ========== fBodyAcc.std...Z "FFT of tBodyAcc.std...Z (in hz)" Storage mode: double Measurement: interval

Min: -0.987 Max: 0.687 Mean: -0.582 Std.Dev.: 0.387 Skewness: 0.518 Kurtosis: -0.808

Skewness: 0.469 Kurtosis: -1.145

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fBodyAccJerk.mean...X
 "FFT of tBodyAccJerk.mean...X (in hz)"
 Storage mode: double
 Measurement: interval
    Min: -0.995
    Max: 0.474
    Mean: -0.614
  Std.Dev.: 0.397
  Skewness: 0.444
  Kurtosis: -1.222
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==========
 fBodyAccJerk.mean...Y
 "FFT of tBodyAccJerk.mean...Y (in hz)"
 Storage mode: double
 Measurement: interval
    Min: -0.989
    Max: 0.277
    Mean: -0.588
  Std.Dev.: 0.407
  Skewness: 0.347
  Kurtosis: -1.478
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==========
 fBodyAccJerk.mean...Z
 "FFT of tBodyAccJerk.mean...Z (in hz)"
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Storage mode: double Measurement: interval

Min: -0.992 Max: 0.158 Mean: -0.714 Std.Dev.: 0.296 Skewness: 0.670 Kurtosis: -0.677

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fBodyAccJerk.std...X

"FFT of tBodyAccJerk.std...X (in hz)"

Storage mode: double Measurement: interval

Min: -0.995 Max: 0.477 Mean: -0.612 Std.Dev.: 0.399 Skewness: 0.413 Kurtosis: -1.306

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fBodyAccJerk.std...Y

"FFT of tBodyAccJerk.std...Y (in hz)"

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Storage mode: double Measurement: interval

Min: -0.990 Max: 0.350 Mean: -0.571 Std.Dev.: 0.431 Skewness: 0.393 Kurtosis: -1.386

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fBodyAccJerk.std...Z

"FFT of tBodyAccJerk.std...Z (in hz)"

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Storage mode: double Measurement: interval

Min: -0.993 Max: -0.006 Mean: -0.756 Std.Dev.: 0.256 Skewness: 0.709 Kurtosis: -0.606

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fBodyGyro.mean...X

"FFT of tBodyGyro.mean...X (in hz)"

Storage mode: double Measurement: interval

Min: -0.993 Max: 0.475 Mean: -0.637 Std.Dev.: 0.346 Skewness: 0.417 Kurtosis: -1.040

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fBodyGyro.mean...Y
 "FFT of tBodyGyro.mean...Y (in hz)"
 Storage mode: double
 Measurement: interval
    Min: -0.994
    Max: 0.329
    Mean: -0.677
  Std.Dev.: 0.331
  Skewness: 0.738
  Kurtosis: -0.471
______
==========
 fBodyGyro.mean...Z
 "FFT of tBodyGyro.mean...Z (in hz)"
 Storage mode: double
 Measurement: interval
    Min: -0.986
    Max: 0.492
    Mean: -0.604
  Std.Dev.: 0.383
  Skewness: 0.445
  Kurtosis: -1.128
______
==========
 fBodyGyro.std...X
 "FFT of tBodyGyro.std...X (in hz)"
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Storage mode: double Measurement: interval

Min: -0.995 Max: 0.197 Mean: -0.711 Std.Dev.: 0.272 Skewness: 0.401 Kurtosis: -1.052

==========

fBodyGyro.std...Y

"FFT of tBodyGyro.std...Y (in hz)"

Storage mode: double Measurement: interval

Min: -0.994 Max: 0.646 Mean: -0.645 Std.Dev.: 0.362 Skewness: 0.830 Kurtosis: -0.090

=========

fBodyGyro.std...Z

"FFT of tBodyGyro.std...Z (in hz)"

Storage mode: double Measurement: interval

Min: -0.987 Max: 0.522 Mean: -0.658 Std.Dev.: 0.335 Skewness: 0.631 Kurtosis: -0.449

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fBodyAccMag.mean..

"FFT of tBodyAccMag.mean.. (in hz)"

Storage mode: double Measurement: interval

Min: -0.987 Max: 0.587 Mean: -0.537 Std.Dev.: 0.450 Skewness: 0.464 Kurtosis: -1.197

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fBodyAccMag.std..

"FFT of tBodyAccMag.std.. (in hz)"

Storage mode: double Measurement: interval

Min: -0.988 Max: 0.179 Mean: -0.621 Std.Dev.: 0.352 Skewness: 0.493 Kurtosis: -1.134

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fBodyAccJerkMag.mean..
 "FFT of tBodyAccJerkMag.mean.. (in hz)"
 Storage mode: double
 Measurement: interval
    Min: -0.994
    Max: 0.538
   Mean: -0.576
  Std.Dev.: 0.430
  Skewness: 0.424
  Kurtosis: -1.293
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==========
fBodyAccJerkMag.std..
 "FFT of tBodyAccJerkMag.std.. (in hz)"
 Storage mode: double
 Measurement: interval
    Min: -0.994
    Max: 0.316
   Mean: -0.599
  Std.Dev.: 0.408
  Skewness: 0.453
  Kurtosis: -1.301
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 fBodyGyroMag.mean..
 "FFT of tBodyGyroMag.mag.. (in hz)"
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Storage mode: double
Measurement: interval
Min: -0.987
Max: 0.204
Mean: -0.667
Std.Dev.: 0.317 Skewness: 0.582
Kurtosis: -0.793
Kurtosis0.733
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fBodyGyroMag.std
"FFT of tBodyGyroMag.std (in hz)"
Storage mode: double
Measurement: interval
Min: -0.981
Max: 0.237
Mean: -0.672
Std.Dev.: 0.292
Skewness: 0.493
Kurtosis: -0.955
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fBodyGyroJerkMag.mean
"FFT of tBodyGyroJerkMag.mean (in hz)"
Storage mode: double
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Measurement: interval

Min: -0.998 Max: 0.147 Mean: -0.756 Std.Dev.: 0.262 Skewness: 0.957 Kurtosis: 0.276

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fBody Gyro Jerk Mag. std..

"FFT of tBodyGyroJerkMag.std.. (in hz)"

Storage mode: double Measurement: interval

Min: -0.998 Max: 0.288 Mean: -0.772 Std.Dev.: 0.250 Skewness: 1.137 Kurtosis: 1.122