

## Codebook : Activity\_data\_per\_activity\_and\_subject.txt

**Dataset description:** The dataset is based on data originally collected by Jorge L. Reyes-Ortiz, Davide Anguita, Alessandro Ghio, Luca Oneto at the Smartlab - Non Linear Complex Systems Laboratory DITEN - Università degli Studi di Genova, Genoa I-16145, Italy. The original dataset was a “Human Activity Recognition database built from the recordings of 30 subjects performing activities of daily living (ADL) while carrying a waist-mounted smartphone with embedded inertial sensors”. The original can be obtained at <http://archive.ics.uci.edu/ml/machine-learning-databases/00240/UCI%20HAR%20Dataset.zip>

The original dataset was not easy to analyse statistically, as it was distributed across multiple text files, containing training and test sets, labels for activities, labels for subjects etc.

The current dataset attempts to make the data more accessible, by providing a single data file of text format, in which each subject’s data is recorded in a single row. In order to do this, we selected only mean and standard deviation data on the original activity variables, and then we averaged these across subjects.

**Transformations:** The R script file that records how the original dataset was transformed to its format from the original data is called run\_analysis.R

Briefly, the transformations were

- 1 Read in test data set files and name the vars
- 2 Combine the subject names, activities, and data
- 3 Create a variable that reflects that all these data are from the test set
- 4 Repeat 1-3 for training set
- 5 Combine the training and test data sets
- 6 Select and retain variables that reflect computations of mean and standard deviation
- 7 Reshape data file so that each record reflects one subject, with means computed for each of the variables in 6

**File:** Activity\_data\_per\_activity\_and\_subject.txt Text format (Windows), comma separated. 30 records for 475 variables

**Variables:** These are described in brief, the example specifications should be clear enough to interpret the content of the rest of the variables. All measured variables report co-ordinates, and usually in XYZ space

Variable	Description
Subject	Subject no [1:30]
tBodyAcc-mean()-X_laying	The mean X co-ordinate of the original variable tBodyAcc-mean() for the activity laying.
tBodyAcc-mean()-X_sitting	As above, but for the activity sitting
tBodyAcc-mean()-X_standing	See above
tBodyAcc-mean()-X_walking	..
tBodyAcc-mean()-X_walking_downstairs	..
tBodyAcc-mean()-X_walking_upstairs	..
tBodyAcc-mean()-Y_laying	The mean Y co-ordinate of the original variable tBodyAcc-mean() for the activity laying
tBodyAcc-mean()-Y_sitting	.
tBodyAcc-mean()-Y_standing	..
tBodyAcc-mean()-Y_walking	
tBodyAcc-mean()-Y_walking_downstairs	
tBodyAcc-mean()-Y_walking_upstairs	
tBodyAcc-mean()-Z_laying	
tBodyAcc-mean()-Z_sitting	
tBodyAcc-mean()-Z_standing	
tBodyAcc-mean()-Z_walking	
tBodyAcc-mean()-Z_walking_downstairs	
tBodyAcc-mean()-Z_walking_upstairs	
tBodyAcc-std()-X_laying	
tBodyAcc-std()-X_sitting	
tBodyAcc-std()-X_standing	
tBodyAcc-std()-X_walking	
tBodyAcc-std()-X_walking_downstairs	
tBodyAcc-std()-X_walking_upstairs	
tBodyAcc-std()-Y_laying	
tBodyAcc-std()-Y_sitting	
tBodyAcc-std()-Y_standing	
tBodyAcc-std()-Y_walking	
tBodyAcc-std()-Y_walking_downstairs	
tBodyAcc-std()-Y_walking_upstairs	
tBodyAcc-std()-Z_laying	
tBodyAcc-std()-Z_sitting	
tBodyAcc-std()-Z_standing	
tBodyAcc-std()-Z_walking	
tBodyAcc-std()-Z_walking_downstairs	
tBodyAcc-std()-Z_walking_upstairs	
tGravityAcc-mean()-X_laying	
tGravityAcc-mean()-X_sitting	
tGravityAcc-mean()-X_standing	
tGravityAcc-mean()-X_walking	

tGravityAcc-mean()-X\_walking\_downstairs  
tGravityAcc-mean()-X\_walking\_upstairs  
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tGravityAcc-mean()-Y\_sitting  
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tGravityAcc-mean()-Y\_walking  
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fBodyBodyAccJerkMag-std()\_laying

See the original dataset documentation for a description

fBodyBodyAccJerkMag-std()\_sitting  
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fBodyBodyGyroJerkMag-std()\_walking\_downstairs  
fBodyBodyGyroJerkMag-std()\_walking\_upstairs  
fBodyBodyGyroJerkMag-meanFreq()\_laying  
fBodyBodyGyroJerkMag-meanFreq()\_sitting

fBodyBodyGyroJerkMag-meanFreq()\_standing

fBodyBodyGyroJerkMag-meanFreq()\_walking

fBodyBodyGyroJerkMag-meanFreq()\_walking\_downstairs

fBodyBodyGyroJerkMag-meanFreq()\_walking\_upstairs