

Code Book for Getting and Cleaning Data Course Project

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Difference with original dataset

The dataset to be analysed is downloaded from: <https://d396qusza40orc.cloudfront.net/getdata%2Fprojectfiles%2FUCI%20HAR%20Dataset.zip>

The companion site for the dataset can be accessed from:

<http://archive.ics.uci.edu/ml/datasets/Human+Activity+Recognition+Using+Smartphones>

Although there are no major changes to the variable names, the Table 1 below will summarise the abbreviations used in the variable names in the final output file “*avgbyparticipant.txt*”. An indication of *NA* signifies no changes to the original abbreviations or absence in the original dataset.

Table 1: Summary of variable abbreviations

Original	Modified	Meaning	Units (if any)
NA	ID	Participant/Subject ID from subject_test.txt or subject_train.txt	
NA	Activity	Activity labels from activity_labels.txt	
f	NA	Frequency Domain	
t	NA	Time Domain, 50Hz	
-XYZ	XYZ	Denotes 3-axial signals in X, Y, or Z directions	
Acc	NA	Triaxial acceleration Accelerometer readings	g
Gyro	NA	Triaxial Angular velocity from the gyroscope	radians/s
Body	NA	Denotes Acc or Gyro readings by the Body	
Gravity	NA	Denotes Acc or Gyro readings due to Gravity	
Jerk	NA	Denotes the body linear acceleration and angular velocity derived in time to obtain Jerk signals	
Mag	NA	Denotes the magnitude of these three-dimensional signals calculated using the Euclidean norm	
mean()	Mean	Indicates a mean calculation	
std()	Std	Indicates a standard deviation calculation	