Code Book - tidyallData

Class Project   Aug 22, 2015
Getting and Cleaning Data   bclayton

tidyallData – This is a data set derived from study results of the Human Activity Recognition Using Smartphones Dataset. Version 1.0[1]

Dimensions: 11880 rows, 4 columns

Data Elements
 Subject : int, length 1
           Id's of the 30 subjects in the study
           Sample values: 1, 2, 3…

Activity char, length 18

           Activities performed in the study. There are six different activities:
           1 WALKING
           2 WALKING_UPSTAIRS
           3 WALKING_DOWNSTAIRS
           4 SITTING
           5 STANDING
           6 LAYING

variable: Factor with 66 levels

           The variables collected in the study that pertained to either mean or standard deviation. The variable describes details pertaining to the study delineated with '.' character
           - Domain of variable (Time or Frequency)
           - signal (Body or Gravity)
           - Source of raw data (accelerometer - Acc, BodyAcc and gyroscope – Gyro, Body Gyro)
           - Measures derived from other measures (Jerk, Mag, JerkMag)
           - Type of measure (Mean, Standard Deviation)
           - Axis for meaure (X,Y,Z)

           Sample values:
           Time.Body.Acc.mean.X
           Freq.Body.BodyAcc.JerkMag.mean

           meanValue: num

           This is computed as the mean of the variable values across all measures taken for the subject for this activity. The mean is calculated on values that are normalized and bounded within [-1, 1]

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Sample values: -0.5497849, -0.5808781