

Code Book for Course Project of Coursera Course „Getting and Cleaning Data“

[1] "subject"

Identifier (1-30) of subject (person) wearing the smartphone which took the measurements

[2] "activity"

Labeled activity (walking, walking upstairs, walking downstairs, sitting, standing, laying)

[3] "timeDomainBodyAccelerationMeanX"

[4] "timeDomainBodyAccelerationMeanY"

[5] "timeDomainBodyAccelerationMeanZ"

Body acceleration measurements in time domain, X/Y/Z dimensions

[6] "timeDomainBodyAccelerationStandardDeviationX"

[7] "timeDomainBodyAccelerationStandardDeviationY"

[8] "timeDomainBodyAccelerationStandardDeviationZ"

Standard deviations for measurements [3]-[5], respectively

[9] "timeDomainGravityAccelerationMeanX"

[10] "timeDomainGravityAccelerationMeanY"

[11] "timeDomainGravityAccelerationMeanZ"

Measurements of gravitational acceleration in time domain, X/Y/Z dimensions

[12] "timeDomainGravityAccelerationStandardDeviationX"

[13] "timeDomainGravityAccelerationStandardDeviationY"

[14] "timeDomainGravityAccelerationStandardDeviationZ"

Standard deviations for measurements [9]-[11], respectively

[15] "timeDomainBodyAccelerationJerkMeanX"

[16] "timeDomainBodyAccelerationJerkMeanY"

[17] "timeDomainBodyAccelerationJerkMeanZ"

Measurements of body angular acceleration in time domain, X/Y/Z dimensions

[18] "timeDomainBodyAccelerationJerkStandardDeviationX"

[19] "timeDomainBodyAccelerationJerkStandardDeviationY"

[20] "timeDomainBodyAccelerationJerkStandardDeviationZ"

Standard deviations for measurements [18]-[20], respectively

[21] "timeDomainBodyGyroscopMeanX"

[22] "timeDomainBodyGyroscopMeanY"

[23] "timeDomainBodyGyroscopMeanZ"

Gyroscope measurements of body movement in time domain, X/Y/Z dimensions

[24] "timeDomainBodyGyroscopStandardDeviationX"

[25] "timeDomainBodyGyroscopStandardDeviationY"

[26] "timeDomainBodyGyroscopStandardDeviationZ"

Standard deviations for measurements [21]-[23], respectively

[27] "timeDomainBodyGyroscopJerkMeanX"

[28] "timeDomainBodyGyroscopJerkMeanY"

[29] "timeDomainBodyGyroscopJerkMeanZ"

Measurements of body angular motion by gyroscop in time domain, X/Y/Z dimensions

[30] "timeDomainBodyGyroscopJerkStandardDeviationX"

[31] "timeDomainBodyGyroscopJerkStandardDeviationY"

[32] "timeDomainBodyGyroscopJerkStandardDeviationZ"

Standard deviations for measurements [27]-[29], respectively

[33] "timeDomainBodyAccelerationMagnitudeMean"

[34] "timeDomainBodyAccelerationMagnitudeStandardDeviation"

Mean value and standard deviation of body acceleration measurement in time domain

[35] "timeDomainGravityAccelerationMagnitudeMean"

[36] "timeDomainGravityAccelerationMagnitudeStandardDeviation"

Mean value and standard deviation of gravity acceleration measurement in time domain

[37] "timeDomainBodyAccelerationJerkMagnitudeMean"

[38] "timeDomainBodyAccelerationJerkMagnitudeStandardDeviation"

Mean value and standard deviation of body angular acceleration measurement in time domain

[39] "timeDomainBodyGyroscopeMagnitudeMean"

[40] "timeDomainBodyGyroscopeMagnitudeStandardDeviation"

Mean value and standard deviation of body gyroscop measurement in time domain

[41] "timeDomainBodyGyroscopeJerkMagnitudeMean"

[42] "timeDomainBodyGyroscopeJerkMagnitudeStandardDeviation"

Mean value and standard deviation of body angular motion as measured by gyroscop in time domain

[43] "frequencyDomainBodyAccelerationMeanX"

[44] "frequencyDomainBodyAccelerationMeanY"

[45] "frequencyDomainBodyAccelerationMeanZ"

Body acceleration measurements in frequency domain, X/Y/Z dimensions

[46] "frequencyDomainBodyAccelerationStandardDeviationX"

[47] "frequencyDomainBodyAccelerationStandardDeviationY"

[48] "frequencyDomainBodyAccelerationStandardDeviationZ"

Standard deviations for measurements [43]-[45], respectively

[49] "frequencyDomainBodyAccelerationMeanFrequencyX"

[50] "frequencyDomainBodyAccelerationMeanFrequencyY"

[51] "frequencyDomainBodyAccelerationMeanFrequencyZ"

Measurement of frequency of body acceleration in frequency domain, X/Y/Z dimensions

[52] "frequencyDomainBodyAccelerationJerkMeanX"

[53] "frequencyDomainBodyAccelerationJerkMeanY"

[54] "frequencyDomainBodyAccelerationJerkMeanZ"

Standard deviations for measurements [49]-[51], respectively

[55] "frequencyDomainBodyAccelerationJerkStandardDeviationX"

[56] "frequencyDomainBodyAccelerationJerkStandardDeviationY"

[57] "frequencyDomainBodyAccelerationJerkStandardDeviationZ"

Body angular acceleration measurements in frequency domain, X/Y/Z dimensions

[58] "frequencyDomainBodyAccelerationJerkMeanFrequencyX"

[59] "frequencyDomainBodyAccelerationJerkMeanFrequencyY"

[60] "frequencyDomainBodyAccelerationJerkMeanFrequencyZ"

Standard deviations for measurements [55]-[58], respectively

[61] "frequencyDomainBodyGyroscopeMeanX"

[62] "frequencyDomainBodyGyroscopeMeanY"

[63] "frequencyDomainBodyGyroscopeMeanZ"

Gyroscope measurements for body motion in frequency domain, X/Y/Z dimensions

[64] "frequencyDomainBodyGyroscopeStandardDeviationX"

[65] "frequencyDomainBodyGyroscopeStandardDeviationY"

[66] "frequencyDomainBodyGyroscopeStandardDeviationZ"

Standard deviations for measurements [61]-[63], respectively

[67] "frequencyDomainBodyGyroscopeMeanFrequencyX"

[68] "frequencyDomainBodyGyroscopeMeanFrequencyY"

[69] "frequencyDomainBodyGyroscopeMeanFrequencyZ"

Mean frequency in X/Y/Z dimensions for body gyroscope measurement

[70] "frequencyDomainBodyAccelerationMean"

[71] "frequencyDomainBodyAccelerationMagnitudeStandardDeviation"

Mean and standard deviation for body acceleration in frequency domain

[72] "frequencyDomainBodyAccelerationMagnitudeMeanFrequency"

[73] "frequencyDomainBodyBodyAccelerationJerkMagnitudeMean"

[74]

"frequencyDomainBodyBodyAccelerationJerkMagnitudeStandardDeviation"

[75]

"frequencyDomainBodyBodyAccelerationJerkMagnitudeMeanFrequency"

[76] "frequencyDomainBodyBodyGyroscopeMagnitudeMean"

[77] "frequencyDomainBodyBodyGyroscopeMagnitudeStandardDeviation"

[78] "frequencyDomainBodyBodyGyroscopeMagnitudeMeanFrequency"

Magnitude, standard deviation and mean frequency for body/body gyroscope measurements in frequency domain

[79] "frequencyDomainBodyBodyGyroscopeJerkMagnitudeMean"

[80] "frequencyDomainBodyBodyGyroscopeMagnitudeStandardDeviation"

[81] "frequencyDomainBodyBodyGyroscopeMagnitudeMeanFrequency"

[82] "angleOfTimeDomainBodyAccelerationMeanGravity"

[83] "angleOfTimeDomainBodyAccelerationJerkMeanVsGravityMean"

[84] "angleOfTimeDomainBodyGyroscopeMeanVsGravityMean"

[85] "angleOfTimeDomainBodyGyroscopeJerkMeanVsGravityMean"

angles of accelerometer and gyroscope vs. gravity direction

[86] "angleOfXVsGravityMean"

[87] "angleOfYVsGravityMean"

[88] "angleOfZVsGravityMean"

angles for gravity direction vs. X/Y/Z direction as defined by phone