

# Codebook

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## 1 Introduction

This codebook provides an explanation for the output file tidydataset.txt. See readme to find out more information about the data. tidydataset.txt stores means of each activities and subjects.

## 2 Sorts

Activities and subjects are sorts of means in this text file. There are 6 kinds of activities, "Walking", "WalkingUp", "WalkingDown", "Sitting", "Standing", "Laying". There are 30 volunteers' ID, from 1 to 30. Thus we have 36 sorts of mean, which means 36 rows.

## 3 Variables

There are 66 variables.

"TimeBodyAccMean-X"  
"TimeBodyAccMean-Y"  
"TimeBodyAccMean-Z"  
"TimeBodyAccStdDev-X"  
"TimeBodyAccStdDev-Y"  
"TimeBodyAccStdDev-Z"  
"TimeGravityAccMean-X"  
"TimeGravityAccMean-Y"  
"TimeGravityAccMean-Z"  
"TimeGravityAccStdDev-X"  
"TimeGravityAccStdDev-Y"  
"TimeGravityAccStdDev-Z"  
"TimeBodyAccJerkMean-X"  
"TimeBodyAccJerkMean-Y"  
"TimeBodyAccJerkMean-Z"  
"TimeBodyAccJerkStdDev-X"  
"TimeBodyAccJerkStdDev-Y"  
"TimeBodyAccJerkStdDev-Z"  
"TimeBodyGyroMean-X"  
"TimeBodyGyroMean-Y"  
"TimeBodyGyroMean-Z"  
"TimeBodyGyroStdDev-X"  
"TimeBodyGyroStdDev-Y"  
"TimeBodyGyroStdDev-Z"  
"TimeBodyGyroJerkMean-X"

"TimeBodyGyroJerkMean-Y"  
 "TimeBodyGyroJerkMean-Z"  
 "TimeBodyGyroJerkStdDev-X"  
 "TimeBodyGyroJerkStdDev-Y"  
 "TimeBodyGyroJerkStdDev-Z"  
 "TimeBodyAccMagnitudeMean"  
 "TimeBodyAccMagnitudeStdDev"  
 "TimeGravityAccMagnitudeMean"  
 "TimeGravityAccMagnitudeStdDev"  
 "TimeBodyAccJerkMagnitudeMean"  
 "TimeBodyAccJerkMagnitudeStdDev"  
 "TimeBodyGyroMagnitudeMean"  
 "TimeBodyGyroMagnitudeStdDev"  
 "TimeBodyGyroJerkMagnitudeMean"  
 "TimeBodyGyroJerkMagnitudeStdDev"  
 "FreqBodyAccMean-X"  
 "FreqBodyAccMean-Y"  
 "FreqBodyAccMean-Z"  
 "FreqBodyAccStdDev-X"  
 "FreqBodyAccStdDev-Y"  
 "FreqBodyAccStdDev-Z"  
 "FreqBodyAccJerkMean-X"  
 "FreqBodyAccJerkMean-Y"  
 "FreqBodyAccJerkMean-Z"  
 "FreqBodyAccJerkStdDev-X"  
 "FreqBodyAccJerkStdDev-Y"  
 "FreqBodyAccJerkStdDev-Z"  
 "FreqBodyGyroMean-X"  
 "FreqBodyGyroMean-Y"  
 "FreqBodyGyroMean-Z"  
 "FreqBodyGyroStdDev-X"  
 "FreqBodyGyroStdDev-Y"  
 "FreqBodyGyroStdDev-Z"  
 "FreqBodyAccMagnitudeMean"  
 "FreqBodyAccMagnitudeStdDev"  
 "FreqBodyBodyAccJerkMagnitudeMean"  
 "FreqBodyBodyAccJerkMagnitudeStdDev"  
 "FreqBodyBodyGyroMagnitudeMean"  
 "FreqBodyBodyGyroMagnitudeStdDev"  
 "FreqBodyBodyGyroJerkMagnitudeMean"  
 "FreqBodyBodyGyroJerkMagnitudeStdDev"

Where "Freq" stands for frequency, "Acc" stands for acceleration, "StdDev" stands for standard deviation,  
 "Jerk" stands for Jerk signal.