This code book contains all the variables in the run\_analysis.txt file.

|  |  |
| --- | --- |
| ***Variable*** | ***Description*** |
| subject | Subject number of the participant in the study (1-30) |
| activity | The type of activity ( Laying, Sitting, Standing, Walking, Walking Downstairs, Walking Upstairs) |
|  |  |
|  | All the following variables are the means of the variables noted in the name to the left |
| tBodyAcc-mean()-X |  |
| tBodyAcc-mean()-Y |  |
| tBodyAcc-mean()-Z |  |
| tGravityAcc-mean()-X |  |
| tGravityAcc-mean()-Y |  |
| tGravityAcc-mean()-Z |  |
| tBodyAccJerk-mean()-X |  |
| tBodyAccJerk-mean()-Y |  |
| tBodyAccJerk-mean()-Z |  |
| tBodyGyro-mean()-X |  |
| tBodyGyro-mean()-Y |  |
| tBodyGyro-mean()-Z |  |
| tBodyGyroJerk-mean()-X |  |
| tBodyGyroJerk-mean()-Y |  |
| tBodyGyroJerk-mean()-Z |  |
| tBodyAccMag-mean() |  |
| tGravityAccMag-mean() |  |
| tBodyAccJerkMag-mean() |  |
| tBodyGyroMag-mean() |  |
| tBodyGyroJerkMag-mean() |  |
| fBodyAcc-mean()-X |  |
| fBodyAcc-mean()-Y |  |
| fBodyAcc-mean()-Z |  |
| fBodyAcc-meanFreq()-X |  |
| fBodyAcc-meanFreq()-Y |  |
| fBodyAcc-meanFreq()-Z |  |
| fBodyAccJerk-mean()-X |  |
| fBodyAccJerk-mean()-Y |  |
| fBodyAccJerk-mean()-Z |  |
| fBodyAccJerk-meanFreq()-X |  |
| fBodyAccJerk-meanFreq()-Y |  |
| fBodyAccJerk-meanFreq()-Z |  |
| fBodyGyro-mean()-X |  |
| fBodyGyro-mean()-Y |  |
| fBodyGyro-mean()-Z |  |
| fBodyGyro-meanFreq()-X |  |
| fBodyGyro-meanFreq()-Y |  |
| fBodyGyro-meanFreq()-Z |  |
| fBodyAccMag-mean() |  |
| fBodyAccMag-meanFreq() |  |
| fBodyBodyAccJerkMag-mean() |  |
| fBodyBodyAccJerkMag-meanFreq() |  |
| fBodyBodyGyroMag-mean() |  |
| fBodyBodyGyroMag-meanFreq() |  |
| fBodyBodyGyroJerkMag-mean() |  |
| fBodyBodyGyroJerkMag-meanFreq() |  |
| angle(tBodyAccMean,gravity) |  |
| angle(tBodyAccJerkMean),gravityMean) |  |
| angle(tBodyGyroMean,gravityMean) |  |
| angle(tBodyGyroJerkMean,gravityMean) |  |
| angle(X,gravityMean) |  |
| angle(Y,gravityMean) |  |
| angle(Z,gravityMean) |  |
| tBodyAcc-std()-X |  |
| tBodyAcc-std()-Y |  |
| tBodyAcc-std()-Z |  |
| tGravityAcc-std()-X |  |
| tGravityAcc-std()-Y |  |
| tGravityAcc-std()-Z |  |
| tBodyAccJerk-std()-X |  |
| tBodyAccJerk-std()-Y |  |
| tBodyAccJerk-std()-Z |  |
| tBodyGyro-std()-X |  |
| tBodyGyro-std()-Y |  |
| tBodyGyro-std()-Z |  |
| tBodyGyroJerk-std()-X |  |
| tBodyGyroJerk-std()-Y |  |
| tBodyGyroJerk-std()-Z |  |
| tBodyAccMag-std() |  |
| tGravityAccMag-std() |  |
| tBodyAccJerkMag-std() |  |
| tBodyGyroMag-std() |  |
| tBodyGyroJerkMag-std() |  |
| fBodyAcc-std()-X |  |
| fBodyAcc-std()-Y |  |
| fBodyAcc-std()-Z |  |
| fBodyAccJerk-std()-X |  |
| fBodyAccJerk-std()-Y |  |
| fBodyAccJerk-std()-Z |  |
| fBodyGyro-std()-X |  |
| fBodyGyro-std()-Y |  |
| fBodyGyro-std()-Z |  |
| fBodyAccMag-std() |  |
| fBodyBodyAccJerkMag-std() |  |
| fBodyBodyGyroMag-std() |  |
| fBodyBodyGyroJerkMag-std() |  |