**Code Book**

This code book summarizes the resulting data fields in TidyData.txt.

**Identifiers**

* Subject - The ID of the test subject
* Activity\_Label - The type of activity performed when the corresponding measurements were taken of the standard deviation and the mean.

**Measurement**

The standard deviation and the mean were taken for the following measurements noted in the title (“mean()” for the mean and “std()” for the standard deviation:

|  |  |  |  |
| --- | --- | --- | --- |
| tBodyAcc-mean()-X |  |  | fBodyAcc-mean()-X |
| tBodyAcc-mean()-Y |  |  | fBodyAcc-mean()-Y |
| tBodyAcc-mean()-Z |  |  | fBodyAcc-mean()-Z |
| tBodyAcc-std()-X |  |  | fBodyAcc-std()-X |
| tBodyAcc-std()-Y |  |  | fBodyAcc-std()-Y |
| tBodyAcc-std()-Z |  |  | fBodyAcc-std()-Z |
| tGravityAcc-mean()-X | |  | fBodyAcc-meanFreq()-X |
| tGravityAcc-mean()-Y | |  | fBodyAcc-meanFreq()-Y |
| tGravityAcc-mean()-Z | |  | fBodyAcc-meanFreq()-Z |
| tGravityAcc-std()-X |  |  | fBodyAccJerk-mean()-X |
| tGravityAcc-std()-Y |  |  | fBodyAccJerk-mean()-Y |
| tGravityAcc-std()-Z |  |  | fBodyAccJerk-mean()-Z |
| tBodyAccJerk-mean()-X | |  | fBodyAccJerk-std()-X |
| tBodyAccJerk-mean()-Y | |  | fBodyAccJerk-std()-Y |
| tBodyAccJerk-mean()-Z | |  | fBodyAccJerk-std()-Z |
| tBodyAccJerk-std()-X | |  | fBodyAccJerk-meanFreq()-X |
| tBodyAccJerk-std()-Y | |  | fBodyAccJerk-meanFreq()-Y |
| tBodyAccJerk-std()-Z | |  | fBodyAccJerk-meanFreq()-Z |
| tBodyGyro-mean()-X | |  | fBodyGyro-mean()-X |
| tBodyGyro-mean()-Y | |  | fBodyGyro-mean()-Y |
| tBodyGyro-mean()-Z | |  | fBodyGyro-mean()-Z |
| tBodyGyro-std()-X |  |  | fBodyGyro-std()-X |
| tBodyGyro-std()-Y |  |  | fBodyGyro-std()-Y |
| tBodyGyro-std()-Z |  |  | fBodyGyro-std()-Z |
| tBodyGyroJerk-mean()-X | |  | fBodyGyro-meanFreq()-X |
| tBodyGyroJerk-mean()-Y | |  | fBodyGyro-meanFreq()-Y |
| tBodyGyroJerk-mean()-Z | |  | fBodyGyro-meanFreq()-Z |
| tBodyGyroJerk-std()-X | |  | fBodyAccMag-mean() |
| tBodyGyroJerk-std()-Y | |  | fBodyAccMag-std() |
| tBodyGyroJerk-std()-Z | |  | fBodyAccMag-meanFreq() |
| tBodyAccMag-mean() | |  | fBodyBodyAccJerkMag-mean() |
| tBodyAccMag-std() |  |  | fBodyBodyAccJerkMag-std() |
| tGravityAccMag-mean() | |  | fBodyBodyAccJerkMag-meanFreq() |
| tGravityAccMag-std() | |  | fBodyBodyGyroMag-mean() |
| tBodyAccJerkMag-mean() | |  | fBodyBodyGyroMag-std() |
| tBodyAccJerkMag-std() | |  | fBodyBodyGyroMag-meanFreq() |
| tBodyGyroMag-mean() | |  | fBodyBodyGyroJerkMag-mean() |
| tBodyGyroMag-std() | |  | fBodyBodyGyroJerkMag-std() |
| tBodyGyroJerkMag-mean() | |  | fBodyBodyGyroJerkMag-meanFreq() |
| tBodyGyroJerkMag-std() | |  |  |

**Activity Labels**

* WALKING (value 1): subject was walking during the test
* WALKING\_UPSTAIRS (value 2): subject was walking up a staircase during the test
* WALKING\_DOWNSTAIRS (value 3): subject was walking down a staircase during the test
* SITTING (value 4): subject was sitting during the test
* STANDING (value 5): subject was standing during the test
* LAYING (value 6): subject was laying down during the test