

Getting and Cleaning Data Assignment

Code Book

This is a code book for tidy_data.txt created for this assignment. This contains human activity data of 30 subjects for various activities which will be mentioned below.

Variables functions

1. mean
2. standard deviation

Activity

```
##   V1           V2
## 1  1           WALKING
## 2  2  WALKING_UPSTAIRS
## 3  3  WALKING_DOWNSTAIRS
## 4  4           SITTING
## 5  5           STANDING
## 6  6           LAYING
```

The tidy data contains following variables:

```
## [1] tBodyAcc-mean()-X          tBodyAcc-mean()-Y
## [3] tBodyAcc-mean()-Z          tBodyAcc-std()-X
## [5] tBodyAcc-std()-Y           tBodyAcc-std()-Z
## [7] tGravityAcc-mean()-X       tGravityAcc-mean()-Y
## [9] tGravityAcc-mean()-Z       tGravityAcc-std()-X
## [11] tGravityAcc-std()-Y        tGravityAcc-std()-Z
## [13] tBodyAccJerk-mean()-X      tBodyAccJerk-mean()-Y
## [15] tBodyAccJerk-mean()-Z      tBodyAccJerk-std()-X
## [17] tBodyAccJerk-std()-Y       tBodyAccJerk-std()-Z
## [19] tBodyGyro-mean()-X         tBodyGyro-mean()-Y
## [21] tBodyGyro-mean()-Z         tBodyGyro-std()-X
## [23] tBodyGyro-std()-Y          tBodyGyro-std()-Z
## [25] tBodyGyroJerk-mean()-X     tBodyGyroJerk-mean()-Y
## [27] tBodyGyroJerk-mean()-Z     tBodyGyroJerk-std()-X
## [29] tBodyGyroJerk-std()-Y      tBodyGyroJerk-std()-Z
## [31] tBodyAccMag-mean()         tBodyAccMag-std()
## [33] tGravityAccMag-mean()      tGravityAccMag-std()
## [35] tBodyAccJerkMag-mean()     tBodyAccJerkMag-std()
## [37] tBodyGyroMag-mean()        tBodyGyroMag-std()
## [39] tBodyGyroJerkMag-mean()    tBodyGyroJerkMag-std()
## [41] fBodyAcc-mean()-X          fBodyAcc-mean()-Y
## [43] fBodyAcc-mean()-Z          fBodyAcc-std()-X
## [45] fBodyAcc-std()-Y           fBodyAcc-std()-Z
## [47] fBodyAcc-meanFreq()-X      fBodyAcc-meanFreq()-Y
## [49] fBodyAcc-meanFreq()-Z      fBodyAccJerk-mean()-X
```

```

## [51] fBodyAccJerk-mean()-Y          fBodyAccJerk-mean()-Z
## [53] fBodyAccJerk-std()-X           fBodyAccJerk-std()-Y
## [55] fBodyAccJerk-std()-Z           fBodyAccJerk-meanFreq()-X
## [57] fBodyAccJerk-meanFreq()-Y      fBodyAccJerk-meanFreq()-Z
## [59] fBodyGyro-mean()-X             fBodyGyro-mean()-Y
## [61] fBodyGyro-mean()-Z             fBodyGyro-std()-X
## [63] fBodyGyro-std()-Y              fBodyGyro-std()-Z
## [65] fBodyGyro-meanFreq()-X         fBodyGyro-meanFreq()-Y
## [67] fBodyGyro-meanFreq()-Z         fBodyAccMag-mean()
## [69] fBodyAccMag-std()              fBodyAccMag-meanFreq()
## [71] fBodyBodyAccJerkMag-mean()      fBodyBodyAccJerkMag-std()
## [73] fBodyBodyAccJerkMag-meanFreq() fBodyBodyGyroMag-mean()
## [75] fBodyBodyGyroMag-std()          fBodyBodyGyroMag-meanFreq()
## [77] fBodyBodyGyroJerkMag-mean()     fBodyBodyGyroJerkMag-std()
## [79] fBodyBodyGyroJerkMag-meanFreq()
## 477 Levels: angle(tBodyAccJerkMean),gravityMean) ...

```