

Code Book

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VARIABLES

Following are the variables used in the script run_analysis.R for the purpose of creating tidy data set for the Samsung Phone sensor data.

1. vardata : reads variable names from feature.txt
2. variables : contains separated variable names from vardata
3. act_label : reads activity labels from activity_labels.txt
4. actlabels : contains separated variable names from act_label
5. xtest1 : reads test data from X_test.txt file
6. subjecttest : subject data for test entries
7. ytest : activity data for test entries
8. xtraining : reads training data from X_training.txt file
9. subjecttraining : subject data for training entries
10. ytrain : activity data for training entries
11. testdata : collated test data with activity, subject and observations
12. traindata : collated training data with activity, subject and observations
13. fulldata : combined test and training data
14. mean_index : the indices of columns where mean variables exist
15. mean_data : the mean values for measurements
16. std_index : the indices of columns where standard deviation variables exist
17. std_data : the standard deviation values for measurements
18. fulldata2 : contains combined data of mean and standard deviation
19. ans : final tidy data set

Variable in the tidy.txt are -

```
## activity_name
## participant_number
## tBodyAcc.mean...X
## tBodyGyro.mean...X
## tBodyGyro.mean...Y
## tBodyGyro.mean...Z
## tBodyGyroJerk.mean...X
## tBodyGyroJerk.mean...Y
## tBodyGyroJerk.mean...Z
## tBodyAcc.mean...Y
## 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
## tBodyAcc.mean...Z
## fBodyAccJerk.mean...X
## fBodyAccJerk.mean...Y
## fBodyAccJerk.mean...Z
## fBodyAccJerk.meanFreq...X
## fBodyAccJerk.meanFreq...Y
## fBodyAccJerk.meanFreq...Z
## tGravityAcc.mean...X
## tGravityAcc.mean...Y
## fBodyGyro.mean...X
## fBodyGyro.mean...Y
## fBodyGyro.mean...Z
## tGravityAcc.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..
## tBodyAccJerk.mean...X
## tBodyAccJerk.mean...Y
## tBodyAccJerk.mean...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
## tBodyAcc.std...X
## fBodyGyro.std...X
## fBodyGyro.std...Y
## fBodyGyro.std...Z
## tGravityAcc.std...X
## tGravityAcc.std...Y
## tGravityAcc.std...Z
## tBodyAcc.std...Y

```

```
## fBodyAccMag.std..  
## fBodyBodyAccJerkMag.std..  
## fBodyBodyGyroMag.std..  
## fBodyBodyGyroJerkMag.std..  
## tBodyAcc.std...Z  
## tBodyAccJerk.std...X  
## tBodyAccJerk.std...Y  
## tBodyAccJerk.std...Z
```