C:/Users/NMKPG/Desktop/R_Coursera/Coodbook.html

Coodbook.html | Open in Browser | Find | Publish

- Metadata
- Variables
- Missingness report
- Codebook table

Codebook.md

Code

The purpose of this project to create one R script called run_analysis.R that does the following:

```
1/Merges the training and the test sets to create one data set

2/Extracts only the measurements on the mean and standard deviation for each measurement

3/Uses descriptive activity names to name the activities in the data set

4/Appropriately labels the data set with descriptive variable names

5/From the data set in step 4, creates a second, independent tidy data set with the average of each
variable for each activity and each subject

6/Create a Codebook.md for the project
```

Code

Source for the data used:

```
Human Activity Recognition Using Smartphones Dataset
Version 1.0

Jorge L. Reyes-Ortiz, Davide Anguita, Alessandro Ghio, Luca Oneto.
Smartlab - Non Linear Complex Systems Laboratory
DITEN - Università degli Studi di Genova.
Via Opera Pia 11A, I-16145, Genoa, Italy.
activityrecognition@smartlab.ws
www.smartlab.ws

http://archive.ics.uci.edu/ml/datasets/Human+Activity+Recognition+Using+Smartphones

Data were downloaded from:
https://d396qusza40orc.cloudfront.net/getdata%2Fprojectfiles%2FUCI%20HAR%20Dataset.zip
```

```
                    run_analysis.R
```

1/Merging the training and the test sets to create one data set:

```
#READING FEATURES:
featurestest<-read.csv("test/X_test.txt", sep="",header=FALSE)
featurestrain<-read.csv("train/X_train.txt", sep="",header=FALSE)
#READING LEVELS OF ACTIVITY:
activitylevels<-read.csv("activity_labels.txt", sep="",header=FALSE)
```

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Variables

- activity
- subject
- timeBodyAccelerometerMean()X
- timeBodyAccelerometerMean()Y
- timeBodyAccelerometerMean()Z
- timeBodyAccelerometerStDeviation()X
- timeBodyAccelerometerStDeviation()Y
- timeBodyAccelerometerStDeviation()Z
- timeGravityAccelerometerMean()X
- timeGravityAccelerometerMean()Y
- timeGravityAccelerometerMean()Z
- timeGravityAccelerometerStDeviation()
- timeGravityAccelerometerStDeviation()
- timeGravityAccelerometerStDeviation()
- timeBodyAccelerometerJerkMean()X
- timeBodyAccelerometerJerkMean()Y
- timeBodyAccelerometerJerkMean()Z
- timeBodyAccelerometerJerkStDeviatio
- timeBodyAccelerometerJerkStDeviatio
- timeBodyAccelerometerJerkStDeviatio
- timeBodyGyroscopeMean()X
- timeBodyGyroscopeMean()Y
- timeBodyGyroscopeMean()Z
- timeBodyGyroscopeStDeviation()X

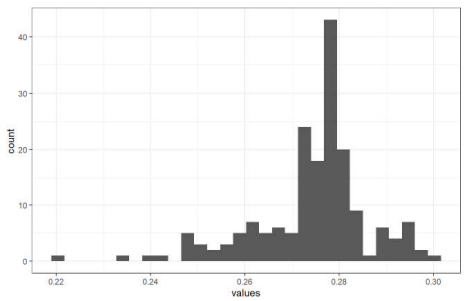
timeBodyAccelerometerMean()X

Distribution | Summary statistics

Code

Code

timeBodyAccelerometerMean()X



Code

0 missing values.

timeBodyAccelerometerMean()Y

Distribution | Summary statistics

Code

Code

timeBodyAccelerometerMean()Y