

CodeBook

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Course Project

Hereby we will understand the variables of the final data set.

Initial Files

After downloading and unzipping the zip file we can recognize six files that will be useful: x_train.txt, x_test.txt, y_train.txt, y_test.txt, subject_train.txt and subject_test.txt.

These files contain the data and information for naming the variables correctly. We use specifically the features file to label correctly both x_something files as it contains the good variable name. The same is for the activity file with the y_something files.

Identifiers

- subject -> It is an ID for the people being tested.
- activity -> In the literal sense of the word, activity done were measurements were taken.

Measurements Taken

tBodyAccMeanX tBodyAccMeanY tBodyAccMeanZ tBodyAccStdX tBodyAccStdY tBodyAccStdZ tGravityAccMeanX tGravityAccMeanY tGravityAccMeanZ tGravityAccStdX tGravityAccStdY tGravityAccStdZ tBodyAccJerkMeanX tBodyAccJerkMeanY tBodyAccJerkMeanZ tBodyAccJerkStdX tBodyAccJerkStdY tBodyAccJerkStdZ tBodyGyroMeanX tBodyGyroMeanY tBodyGyroMeanZ tBodyGyroStdX tBodyGyroStdY tBodyGyroStdZ tBodyGyroJerkMeanX tBodyGyroJerkMeanY tBodyGyroJerkMeanZ tBodyGyroJerkStdX tBodyGyroJerkStdY tBodyGyroJerkStdZ tBodyAccMagMean tBodyAccMagStd tGravityAccMagMean tGravityAccMagStd tBodyAccJerkMagMean tBodyAccJerkMagStd tBodyGyroMagMean tBodyGyroMagStd tBodyGyroJerkMagMean tBodyGyroJerkMagStd fBodyAccMeanX fBodyAccMeanY fBodyAccMeanZ fBodyAccStdX fBodyAccStdY fBodyAccStdZ fBodyAccMeanFreqX fBodyAccMeanFreqY fBodyAccMeanFreqZ fBodyAccJerkMeanX fBodyAccJerkMeanY fBodyAccJerkMeanZ fBodyAccJerkStdX fBodyAccJerkStdY fBodyAccJerkStdZ fBodyAccJerkMeanFreqX fBodyAccJerkMeanFreqY fBodyAccJerkMeanFreqZ fBodyGyroMeanX fBodyGyroMeanY fBodyGyroMeanZ fBodyGyroStdX fBodyGyroStdY fBodyGyroStdZ fBodyGyroMeanFreqX fBodyGyroMeanFreqY fBodyGyroMeanFreqZ fBodyAccMagMean fBodyAccMagStd fBodyAccMagMeanFreq fBodyBodyAccJerkMagMean fBodyBodyAccJerkMagStd fBodyBodyAccJerkMagMeanFreq fBodyBodyGyroMagMean fBodyBodyGyroMagStd fBodyBodyGyroMagMeanFreq fBodyBodyGyroJerkMagMean fBodyBodyGyroJerkMagStd fBodyBodyGyroJerkMagMeanFreq

Activity Variables

- WALKING: the person was walking during the test.
- WALKING_UPSTAIRS: the person was walking up some stairs during the test.
- WALKING_DOWNSTAIRS: Walking down stairs.
- SITTING: the person was sitting.
- STANDING: the person was standing.
- LAYING: the person was laying down.

And that is it for the project!