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title: "CodeBook"
output: html_document
# "run_analysis.R"
1. Downloading data sets to the folder __"UCI HAR Dataset"__ .
2. Assigning data to variables:
    - __features <- read.table("UCI HAR Dataset/features.txt")__</pre>
from the accelerometer and gyroscope 3axial raw signals tAcc-XYZ and tGyro-
XYZ)
    - __activities <- read.table("UCI HAR Dataset/activity_labels.txt"__</pre>
(activities during measurements taking)
    - __subject_test <- read.table("UCI HAR Dataset/test/subject_test.txt"__</pre>
(subject test data)
    - __subject_train <- read.table("UCI HAR Dataset/train/</pre>
subject_train.txt"__
                        (subjects train data)
    - __x_test <- read.table("UCI HAR Dataset/test/X_test.txt"__</pre>
(features test data)
    - __y_test <- read.table("UCI HAR Dataset/test/y_test.txt"__</pre>
                                                                         (test
data of activities)
    - __x_train <- read.table("UCI HAR Dataset/train/X_train.txt"__</pre>
(features train data)
    - __y_train <- read.table("UCI HAR Dataset/train/y_train.txt"__</pre>
                                                                       (train
data of activities)
3. Merges the training and the test sets to create one data set:
                (created merging __x_train__ and __x_test__ with __rbind__)
    - __X__
     __Y__
                (created merging __y_train__ and __y_test__ with __rbind__)
    __subject__
                        (created merging __subject_train__ and
__subject_test__ with __rbind__)
    - __Merge_data__ (created merging __X__, __Y__ , __subject__ with
__cbind__)
4. Extracts only the measurements of the mean and standard deviation for each
measurement:
    - __TidyData__ (created with subsetting Merged_Data and selecting
columns: subject, code, contains("mean"), contains("std"))
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5. Uses descriptive activity names to name the activities in the data set:

- values in code of __TidyData__ replaced by activities from activities variable of 2nd column
- 6. Appropriately labels the data set with descriptive variable names.
- 7. From the data set in step 4, creates a second, independent tidy data set with the average of each variable for each activity and subject.
- 8. __FinalData__ (created by summarizing __TidyData__ by taking mean of each variable in each activity and subject and grouped respectivelly).