Codebook for UCI HAR average of means/std measurements tidydata

The dataset contains information regarding all 30 UCI HAR subjects, 6 activities performed by each subject, and 79 mean and standard deviation categories of smartphone measurements captured and processed by the UCI HAR team.

Subject: 1 : 30, subjects in the experiment, aged 19-48 years, with numbers as assigned by UCI HAR team.
Subjects # $2, 4, 9, 10, 12, 13, 18, 20$, and 24 were test subjects (randomly assigned)
Subjects # $1, 3, 5, 6, 7, 8, 11, 14, 15, 16, 17, 19, 21, 22, 23, 25, 26, 27, 28, 29, 30$ were training subjects (randomly assigned)

Activity: 6 activities performed

- Walking
- Walking upstairs
- Walking downstairs
- Sitting
- Standing
- Laying

For each subject and activity, there is a mean calculation of the following measurements. The test data is a mean of 2947 data points generated by the smartphone at 50Hz, while the training data has 7352 data points, also at 50Hz. The raw data contained 561 different features*measurements* however, the tidy data extracted only mean and standard deviation calculations, which are the following categories:

- "tBodyAcc-mean-X"
- "tBodyAcc-mean-Y"
- "tBodyAcc-mean-Z"
- "tBodyAcc-std-X"
- "tBodyAcc-std-Y"
- "tBodyAcc-std-Z"
- "tGravityAcc-mean-X"
- "tGravityAcc-mean-Y"
- "tGravityAcc-mean-Z"

- "tGravityAcc-std-X"
- "tGravityAcc-std-Y"
- "tGravityAcc-std-Z"
- "tBodyAccJerk-mean-X"
- "tBodyAccJerk-mean-Y"
- "tBodyAccJerk-mean-Z"
- "tBodyAccJerk-std-X"
- "tBodyAccJerk-std-Y"
- "tBodyAccJerk-std-Z"
- "tBodyGyro-mean-X"
- "tBodyGyro-mean-Y"
- "tBodyGyro-mean-Z"
- "tBodyGyro-std-X"
- "tBodyGyro-std-Y"
- "tBodyGyro-std-Z"
- "tBodyGyroJerk-mean-X"
- "tBodyGyroJerk-mean-Y"
- "tBodyGyroJerk-mean-Z"
- "tBodyGyroJerk-std-X"
- "tBodyGyroJerk-std-Y"
- "tBodyGyroJerk-std-Z"
- "tBodyAccMag-mean"
- "tBodyAccMag-std"
- "tGravityAccMag-mean"
- "tGravityAccMag-std"
- "tBodyAccJerkMag-mean"
- "tBodyAccJerkMag-std"
- "tBodyGyroMag-mean"

- "tBodyGyroMag-std"
- "tBodyGyroJerkMag-mean"
- "tBodyGyroJerkMag-std"
- "fBodyAcc-mean-X"
- "fBodyAcc-mean-Y"
- "fBodyAcc-mean-Z"
- "fBodyAcc-std-X"
- "fBodyAcc-std-Y"
- "fBodyAcc-std-Z"
- "fBodyAcc-meanFreq-X"
- "fBodyAcc-meanFreq-Y"
- "fBodyAcc-meanFreq-Z"
- "fBodyAccJerk-mean-X"
- "fBodyAccJerk-mean-Y"
- "fBodyAccJerk-mean-Z"
- "fBodyAccJerk-std-X"
- "fBodyAccJerk-std-Y"
- "fBodyAccJerk-std-Z"
- "fBodyAccJerk-meanFreq-X"
- "fBodyAccJerk-meanFreq-Y"
- "fBodyAccJerk-meanFreq-Z"
- "fBodyGyro-mean-X"
- "fBodyGyro-mean-Y"
- "fBodyGyro-mean-Z"
- "fBodyGyro-std-X"
- "fBodyGyro-std-Y"
- "fBodyGyro-std-Z"
- "fBodyGyro-meanFreq-X"

- "fBodyGyro-meanFreq-Y"
- "fBodyGyro-meanFreq-Z"
- "fBodyAccMag-mean"
- "fBodyAccMag-std"
- "fBodyAccMag-meanFreq"
- "fBodyBodyAccJerkMag-mean"
- "fBodyBodyAccJerkMag-std"
- "fBodyBodyAccJerkMag-meanFreq"
- "fBodyBodyGyroMag-mean"
- "fBodyBodyGyroMag-std"
- "fBodyBodyGyroMag-meanFreq"
- "fBodyBodyGyroJerkMag-mean"
- "fBodyBodyGyroJerkMag-std"
- "fBodyBodyGyroJerkMag-meanFreq"