Tidy data set description

Original data

The original data is downloaded data based on experiments as described in the file.
https://d396qusza40orc.cloudfront.net/getdata%2Fprojectfiles%2FUCI%20HAR%20Dataset.zip

The data was cleaned according the description in the readme file.

The variables in the tidy data

Tidy data contains 180 rows and 68 columns. Each row has averaged variables for the first 2 columns (activity and subject).

The data were averaged based on subject and activity group.

SubjectId column is numbered sequentially from 1 to 30. Activityname column has 6 types as listed below.
WALKING
WALKING_UPSTAIRS
WALKING_DOWNSTAIRS
SITTING
STANDING
LAYING

The tidy data contains 6 rows (averaged based on activity) and 68 columns (66 variables and activity labels).

```
 [1] "activityname"          "subjectId"              "tBodyAcc-mean()-X"
 [4] "tBodyAcc-mean()-Y"     "tBodyAcc-mean()-Z"      "tBodyAcc-std()-X"
 [7] "tBodyAcc-std()-Y"      "tBodyAcc-std()-Z"       "tGravityAcc-mean()-X"
[10] "tGravityAcc-mean()-Y"  "tGravityAcc-mean()-Z"   "tGravityAcc-std()-X"
[13] "tGravityAcc-std()-Y"   "tGravityAcc-std()-Z"    "tBodyAccJerk-mean()-X"
[16] "tBodyAccJerk-mean()-Y" "tBodyAccJerk-mean()-Z"  "tBodyAccJerk-std()-X"
[19] "tBodyAccJerk-std()-Y"  "tBodyAccJerk-std()-Z"   "tBodyGyro-mean()-X"
[22] "tBodyGyro-mean()-Y"    "tBodyGyro-mean()-Z"     "tBodyGyro-std()-X"
[25] "tBodyGyro-std()-Y"     "tBodyGyro-std()-Z"      "tBodyGyroJerk-mean()-X"
[28] "tBodyGyroJerk-mean()-Y" "tBodyGyroJerk-mean()-Z" "tBodyGyroJerk-std()-X"
[31] "tBodyGyroJerk-std()-Y" "tBodyGyroJerk-std()-Z"  "tBodyAccMag-mean()"
[34] "tBodyAccMag-std()"     "tGravityAccMag-mean()"  "tGravityAccMag-std()"
[37] "tBodyAccJerkMag-mean()" "tBodyAccJerkMag-std()" "tBodyGyroMag-mean()"
[40] "tBodyGyroMag-std()"    "tBodyGyroJerkMag-mean()" "tBodyGyroJerkMag-std()"
[43] "fBodyAcc-mean()-X"     "fBodyAcc-mean()-Y"      "fBodyAcc-mean()-Z"
[46] "fBodyAcc-std()-X"      "fBodyAcc-std()-Y"       "fBodyAcc-std()-Z"
[49] "fBodyAccJerk-mean()-X" "fBodyAccJerk-mean()-Y"  "fBodyAccJerk-mean()-Z"
[52] "fBodyAccJerk-std()-X"  "fBodyAccJerk-std()-Y"   "fBodyAccJerk-std()-Z"
[55] "fBodyGyro-mean()-X"    "fBodyGyro-mean()-Y"     "fBodyGyro-mean()-Z"
```

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[58] "fBodyGyro-std()-X"        "fBodyGyro-std()-Y"        "fBodyGyro-std()-Z"
[61] "fBodyAccMag-mean()"       "fBodyAccMag-std()"        "fBodyBodyAccJerkMag-mean()"
[64] "fBodyBodyAccJerkMag-std()"  "fBodyBodyGyroMag-mean()"   "fBodyBodyGyroMag-std()"
[67] "fBodyBodyGyroJerkMag-mean()" "fBodyBodyGyroJerkMag-std()"
```

variable units

Activityname variable is factor type. SubjectId variable is integer type. All the other
variables are numeric type.