Cleaning and Getting Data Week 4 Assignment

Codebook for Tidy Data Set

The data set was modified from UCI HAR Dataset about activities done by 30 volunteers. Each row of the tidy data set was average based on activities and subjects.

Only the mean and standard deviation for variables were remained in the tidy dataset

* Mean(): mean
* Std(): standard deviation

Activity Label has 6 variables for the row:

1. WALKING
2. WALKING\_UPSTAIRS
3. WALKING\_DOWNSTAIRS
4. SITTING
5. STANDING
6. LAYING

The column variables are listed as below:

1. "activitylabel"
2. "subject"
3. "tBodyAcc-mean()-X"
4. "tBodyAcc-mean()-Y"
5. "tBodyAcc-mean()-Z"
6. "tBodyAcc-std()-X"
7. "tBodyAcc-std()-Y"
8. "tBodyAcc-std()-Z"
9. "tGravityAcc-mean()-X"
10. "tGravityAcc-mean()-Y"
11. "tGravityAcc-mean()-Z"
12. "tGravityAcc-std()-X"
13. "tGravityAcc-std()-Y"
14. "tGravityAcc-std()-Z"
15. "tBodyAccJerk-mean()-X"
16. "tBodyAccJerk-mean()-Y"
17. "tBodyAccJerk-mean()-Z"
18. "tBodyAccJerk-std()-X"
19. "tBodyAccJerk-std()-Y"
20. "tBodyAccJerk-std()-Z"
21. "tBodyGyro-mean()-X"
22. "tBodyGyro-mean()-Y"
23. "tBodyGyro-mean()-Z"
24. "tBodyGyro-std()-X"
25. "tBodyGyro-std()-Y"
26. "tBodyGyro-std()-Z"
27. "tBodyGyroJerk-mean()-X"
28. "tBodyGyroJerk-mean()-Y"
29. "tBodyGyroJerk-mean()-Z"
30. "tBodyGyroJerk-std()-X"
31. "tBodyGyroJerk-std()-Y"
32. "tBodyGyroJerk-std()-Z"
33. "tBodyAccMag-mean()"
34. "tBodyAccMag-std()"
35. "tGravityAccMag-mean()"
36. "tGravityAccMag-std()"
37. "tBodyAccJerkMag-mean()"
38. "tBodyAccJerkMag-std()"
39. "tBodyGyroMag-mean()"
40. "tBodyGyroMag-std()"
41. "tBodyGyroJerkMag-mean()"
42. "tBodyGyroJerkMag-std()"
43. "fBodyAcc-mean()-X"
44. "fBodyAcc-mean()-Y"
45. "fBodyAcc-mean()-Z"
46. "fBodyAcc-std()-X"
47. "fBodyAcc-std()-Y"
48. "fBodyAcc-std()-Z"
49. "fBodyAccJerk-mean()-X"
50. "fBodyAccJerk-mean()-Y"
51. "fBodyAccJerk-mean()-Z"
52. "fBodyAccJerk-std()-X"
53. "fBodyAccJerk-std()-Y"
54. "fBodyAccJerk-std()-Z"
55. "fBodyGyro-mean()-X"
56. "fBodyGyro-mean()-Y"
57. "fBodyGyro-mean()-Z"
58. "fBodyGyro-std()-X"
59. "fBodyGyro-std()-Y"
60. "fBodyGyro-std()-Z"
61. "fBodyAccMag-mean()"
62. "fBodyAccMag-std()"
63. "fBodyBodyAccJerkMag-mean()"
64. "fBodyBodyAccJerkMag-std()"
65. "fBodyBodyGyroMag-mean()"
66. "fBodyBodyGyroMag-std()"
67. "fBodyBodyGyroJerkMag-mean()"
68. "fBodyBodyGyroJerkMag-std()"