Variables in the tidy data

Tidy data contains 180 rows and 68 columns. Each row has averaged variables for each subject and each activity.

Only all the variables estimated from mean and standard deviation in the tidy set were kept.

- mean(): Mean value
- std(): Standard deviation

The data were averaged based on subject and activity group.

Subject column is numbered sequentially from 1 to 30. Activity column has 6 types as listed below.

1. WALKING
2. WALKING_UPSTAIRS
3. WALKING_DOWNSTAIRS
4. SITTING
5. STANDING
6. LAYING

The tidy data contains 6 rows (averaged based on activity) and 68 columns (66 variables, 1 activity and 1 subject labels).

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()"

variable units

Activity variable is factor type. Subject variable is integer type. All the other variables are numeric type.