

Cleaning data course project code book

The data presented in tidySet.csv is a summary and manipulation of data collected from the accelerometers from the Samsung Galaxy S smartphone.

The complete dataset, prior to manipulation can be found here:

<https://d396qusza40orc.cloudfront.net/getdata%2Fprojectfiles%2FUCI%20HAR%20Dataset.zip>

There are 180 observations in the file. They represent the averages of mean and standard deviations for measurement means and standard deviations taken in the initial data gathering, for each subject in the test and training sets and for each activity.

With a total of 30 subjects and 6 types of activities – we have 180 observations to account for (a row per subject, activity pair).

The 3:68 columns in the dataset represent averages of the following measurements for each pair:

- | | |
|----------------------------|-----------------------------|
| 3. tBodyAcc-mean()-X | 28. tBodyGyroJerk-mean()-Y |
| 4. tBodyAcc-mean()-Y | 29. tBodyGyroJerk-mean()-Z |
| 5. tBodyAcc-mean()-Z | 30. tBodyGyroJerk-std()-X |
| 6. tBodyAcc-std()-X | 31. tBodyGyroJerk-std()-Y |
| 7. tBodyAcc-std()-Y | 32. tBodyGyroJerk-std()-Z |
| 8. tBodyAcc-std()-Z | 33. tBodyAccMag-mean() |
| 9. tGravityAcc-mean()-X | 34. tBodyAccMag-std() |
| 10. tGravityAcc-mean()-Y | 35. tGravityAccMag-mean |
| 11. tGravityAcc-mean()-Z | 36. tGravityAccMag-std |
| 12. tGravityAcc-std()-X | 37. tBodyAccJerkMag-mean() |
| 13. tGravityAcc-std()-Y | 38. tBodyAccJerkMag-std() |
| 14. tGravityAcc-std()-Z | 39. tBodyGyroMag-mean() |
| 15. tBodyAccJerk-mean()-X | 40. tBodyGyroMag-std() |
| 16. tBodyAccJerk-mean()-Y | 41. tBodyGyroJerkMag-mean() |
| 17. tBodyAccJerk-mean()-Z | 42. tBodyGyroJerkMag-std() |
| 18. tBodyAccJerk-std()-X | 43. fBodyAcc-mean()-X |
| 19. tBodyAccJerk-std()-Y | 44. fBodyAcc-mean()-Y |
| 20. tBodyAccJerk-std()-Z | 45. fBodyAcc-mean()-Z |
| 21. tBodyGyro-mean()-X | 46. fBodyAcc-std()-X |
| 22. tBodyGyro-mean()-Y | 47. fBodyAcc-std()-Y |
| 23. tBodyGyro-mean()-Z | 48. fBodyAcc-std()-Z |
| 24. tBodyGyro-std()-X | 49. fBodyAccJerk-mean()-X |
| 25. tBodyGyro-std()-Y | 50. fBodyAccJerk-mean()-Y |
| 26. tBodyGyro-std()-Z | 51. fBodyAccJerk-mean()-Z |
| 27. tBodyGyroJerk-mean()-X | 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()