** This code book corresponds to the file tidyDataSet.txt generated by the script run_analysis.R.

1. Activity

Type of activity performed by the subject that is wearing the phone (Samsung Galaxy SII) on the waist.

LAYING	The subject is laying
STANDING	The subject is standing
SITTING	The subject is sitting
WALKING	The subject is walking
WALKING_DOWNSTAIRS	The subject is walking downstairs
WALKING_UPSTAIRS	The subject is walking upstairs

2. Subject

Identifier of the subject

1..30

3. tBodyAcc-mean()-X

Mean value of the temporal mean of the body component of the acceleration (in axial component X) over all the experiments carried out by the same user doing the same activity.
Units: g

4. tBodyAcc-mean()-Y

Mean value of the temporal mean of the body component of the acceleration (in axial component Y) over all the experiments carried out by the same user doing the same activity.
Units: g

5. tBodyAcc-mean()-Z

Mean value of the temporal mean of the body component of the acceleration (in axial component Z) over all the experiments carried out by the same user doing the same activity.
Units: g

6. tBodyAcc-std()-X

Mean value of the temporal standard deviation of the body component of the acceleration (in axial component X) over all the experiments carried out by the same user doing the same activity.
Units: g

7. tBodyAcc-std()-Y

Mean value of the temporal standard deviation of the body component of the acceleration (in axial component Y) over all the experiments carried out by the same user doing the same activity.
Units: g

8. tBodyAcc-std()-Z

Mean value of the temporal standard deviation of the body component of the acceleration (in axial component Z) over all the experiments carried out by the same user doing the same activity.
Units: g

9. tGravityAcc-mean()-X

Mean value of the temporal mean of the gravitational component of the acceleration (in axial component X) over all the experiments carried out by the same user doing the same activity.
Units: g

10. tGravityAcc-mean()-Y

Mean value of the temporal mean of the gravitational component of the acceleration (in axial component Y) over all the experiments carried out by the same user doing the same activity.
Units: g

11. tGravityAcc-mean()-Z

Mean value of the temporal mean of the gravitational component of the acceleration (in axial component Z) over all the experiments carried out by the same user doing the same activity.
Units: g

12. tGravityAcc-std()-X
    Mean value of the temporal standard deviation of the gravitational component of the acceleration (in axial component X) over all the experiments carried out by the same user doing the same activity.
    Units: g

13. tGravityAcc-std()-Y
    Mean value of the temporal standard deviation of the gravitational component of the acceleration (in axial component Y) over all the experiments carried out by the same user doing the same activity.
    Units: g

14. tGravityAcc-std()-Z
    Mean value of the temporal standard deviation of the gravitational component of the acceleration (in axial component Z) over all the experiments carried out by the same user doing the same activity.
    Units: g

15. tBodyAccJerk-mean()-X
    Mean value of the temporal mean of the derivative of the body component of the acceleration (in axial component X) over all the experiments carried out by the same user doing the same activity.
    Units: g/s

16. tBodyAccJerk-mean()-Y
    Mean value of the temporal mean of the derivative of the body component of the acceleration (in axial component Y) over all the experiments carried out by the same user doing the same activity.
    Units: g/s

17. tBodyAccJerk-mean()-Z
    Mean value of the temporal mean of the derivative of the body component of the acceleration (in axial component Z) over all the experiments carried out by the same user doing the same activity.
    Units: g/s

18. tBodyAccJerk-std()-X
    Mean value of the temporal standard deviation of the derivative of the body component of the acceleration (in axial component X) over all the experiments carried out by the same user doing the same activity.
    Units: g/s

19. tBodyAccJerk-std()-Y
    Mean value of the temporal standard deviation of the derivative of the body component of the acceleration (in axial component Y) over all the experiments carried out by the same user doing the same activity.
    Units: g/s

20. tBodyAccJerk-std()-Z
    Mean value of the temporal standard deviation of the derivative of the body component of the acceleration (in axial component Z) over all the experiments carried out by the same user doing the same activity.
    Units: g/s

21. tBodyGyro-mean()-X
    Mean value of the temporal mean of the angular speed (in axial component X) over all the experiments carried out by the same user doing the same activity.
    Units: rad/s

22. tBodyGyro-mean()-Y
    Mean value of the temporal mean of the angular speed (in axial component Y) over all the experiments carried out by the same user doing the same activity.
    Units: rad/s

23. tBodyGyro-mean()-Z
    Mean value of the temporal mean of the angular speed (in axial component Z) over all the experiments carried out by the same user doing the same activity.
    Units: rad/s

24. tBodyGyro-std()-X
    Mean value of the temporal standard deviation of the angular speed (in axial component X) over all the experiments carried out by the same user doing the same activity.
    Units: rad/s

25. tBodyGyro-std()-Y
    Mean value of the temporal standard deviation of the angular speed (in axial component Y) over all the experiments carried out by the same user doing the same activity.
    Units: rad/s

26. tBodyGyro-std()-Z
    Mean value of the temporal standard deviation of the angular speed (in axial component Z) over all the experiments carried out by the same user doing the same activity.
    Units: rad/s

27. tBodyGyroJerk-mean()-X
    Mean value of the temporal mean of the derivative of the angular speed (in axial component X) over all the experiments carried out by the same user doing the same activity.
    Units: rad/s^2

28. tBodyGyroJerk-mean()-Y
    Mean value of the temporal mean of the derivative of the angular speed (in axial component Y) over all the experiments carried out by the same user doing the same activity.
    Units: rad/s^2

29. tBodyGyroJerk-mean()-Z
    Mean value of the temporal mean of the derivative of the angular speed (in axial component Z) over all the experiments carried out by the same user doing the same activity.
    Units: rad/s^2

30. tBodyGyroJerk-std()-X
    Mean value of the temporal standard deviation of the derivative of the angular speed (in axial component X) over all the experiments carried out by the same user doing the same activity.
    Units: rad/s^2

31. tBodyGyroJerk-std()-Y
    Mean value of the temporal standard deviation of the derivative of the angular speed (in axial component Y) over all the experiments carried out by the same user doing the same activity.
    Units: rad/s^2

32. tBodyGyroJerk-std()-Z
    Mean value of the temporal standard deviation of the derivative of the angular speed (in axial component Z) over all the experiments carried out by the same user doing the same activity.
    Units: rad/s^2

33. tBodyAccMag-mean()
    Mean value of the temporal mean of the body component of the acceleration (magnitude) over all the experiments carried out by the same user doing the same activity.
    Units: g

34. tBodyAccMag-std()
    Mean value of the temporal standard deviation of body acceleration (magnitude) over all the experiments carried out by the same user doing the same activity.
    Units: g

35. tGravityAccMag-mean()
    Mean value of the temporal mean of the gravitational component of the acceleration (magnitude) over all the experiments carried out by the same user doing the same activity.
    Units: g

36. tGravityAccMag-std()
    Mean value of the temporal standard deviation of gravitational acceleration (magnitude) over all the experiments carried out by the same user doing the same activity.
    Units: g

37. tBodyAccJerkMag-mean()
    Mean value of the temporal mean of the derivative of the body component of the acceleration (magnitude) over all the experiments carried out by the same user doing the same activity.
    Units: g/s

38. tBodyAccJerkMag-std()
    Mean value of the temporal standard deviation of the derivative of the body component of the acceleration (magnitude) over all the experiments carried out by the same user doing the same activity.
    Units: g/s

39. tBodyGyroMag-mean()
    Mean value of the temporal mean of the angular speed (magnitude) over all the experiments carried out by the same user doing the same activity.
    Units: rad/s

40. tBodyGyroMag-std()
    Mean value of the temporal standard deviation of the angular speed (magnitude) over all the experiments carried out by the same user doing the same activity.
    Units: rad/s

41. tBodyGyroJerkMag-mean()
    Mean value of the temporal mean of the derivative of the angular speed (magnitude) over all the experiments carried out by the same user doing the same activity.
    Units: rad/s^2

42. tBodyGyroJerkMag-std()
    Mean value of the temporal standard deviation of the derivative of the angular speed (magnitude) over all the experiments carried out by the same user doing the same activity.
    Units: rad/s^2

43. fBodyAcc-mean()-X
    Mean value of the FFT of the temporal mean of the body component of the acceleration (in axial component X) over all the experiments carried out by the same user doing the same activity.
    Units: $g\ s^{-1}$

44. fBodyAcc-mean()-Y
    Mean value of the FFT of the temporal mean of the body component of the acceleration (in axial component Y) over all the experiments carried out by the same user doing the same activity.
    Units: $g\ s^{-1}$

45. fBodyAcc-mean()-Z
    Mean value of the FFT of the temporal mean of the body component of the acceleration (in axial component Z) over all the experiments carried out by the same user doing the same activity.
    Units: $g\ s^{-1}$

46. fBodyAcc-std()-X
    Mean value of the FFT of the temporal standard deviation of body acceleration (axial component X) over all the experiments carried out by the same user doing the same activity.
    Units: $g\ s^{-1}$

47. fBodyAcc-std()-Y
    Mean value of the FFT of the temporal standard deviation of body acceleration (axial component Y) over all the experiments carried out by the same user doing the same activity.
    Units: g s^{-1}

48. fBodyAcc-std()-Z
    Mean value of the FFT of the temporal standard deviation of body acceleration (axial component Z) over all the experiments carried out by the same user doing the same activity.
    Units: g s^{-1}

49. fBodyAccJerk-mean()-X
    Mean value of the FFT of the temporal mean of the derivative of the body component of the acceleration (in axial component X) over all the experiments carried out by the same user doing the same activity.
    Units: g/s s^{-1}

50. fBodyAccJerk-mean()-Y
    Mean value of the FFT of the temporal mean of the derivative of the body component of the acceleration (in axial component Y) over all the experiments carried out by the same user doing the same activity.
    Units: g/s s^{-1}

51. fBodyAccJerk-mean()-Z
    Mean value of the FFT of the temporal mean of the derivative of the body component of the acceleration (in axial component Z) over all the experiments carried out by the same user doing the same activity.
    Units: g/s s^{-1}

52. fBodyAccJerk-std()-X
    Mean value of the FFT of the temporal standard deviation of the derivative of the body component of the acceleration (in axial component X) over all the experiments carried out by the same user doing the same activity.
    Units: g/s s^{-1}

53. fBodyAccJerk-std()-Y
    Mean value of the FFT of the temporal standard deviation of the derivative of the body component of the acceleration (in axial component Y) over all the experiments carried out by the same user doing the same activity.
    Units: g/s s^{-1}

54. fBodyAccJerk-std()-Z
    Mean value of the FFT of the temporal standard deviation of the derivative of the body component of the acceleration (in axial component Z) over all the experiments carried out by the same user doing the same activity.
    Units: g/s s^{-1}

55. fBodyGyro-mean()-X
    Mean value of the FFT of the temporal mean of the angular speed (in axial component X) over all the experiments carried out by the same user doing the same activity.
    Units: rad/s s^{-1}

56. fBodyGyro-mean()-Y
    Mean value of the FFT of the temporal mean of the angular speed (in axial component Y) over all the experiments carried out by the same user doing the same activity.
    Units: rad/s s^{-1}

57. fBodyGyro-mean()-Z
    Mean value of the FFT of the temporal mean of the angular speed (in axial component Z) over all the experiments carried out by the same user doing the same activity.
    Units: rad/s s^{-1}

58. fBodyGyro-std()-X
    Mean value of the FFT of the temporal standard deviation of the angular speed (in axial component X) over all the experiments carried out by the same user doing the same activity.
    Units: rad/s s^{-1}

59. fBodyGyro-std()-Y
    Mean value of the FFT of the temporal standard deviation of the angular speed (in axial component Y) over all the experiments carried out by the same user doing the same activity.
    Units: rad/s s^{-1}

60. fBodyGyro-std()-Z
    Mean value of the FFT of the temporal standard deviation of the angular speed (in axial component Z) over all the experiments carried out by the same user doing the same activity.
    Units: rad/s s^{-1}

61. fBodyAccMag-mean()
    Mean value of the FFT of the temporal mean of the body component of the acceleration (magnitude) over all the experiments carried out by the same user doing the same activity.
    Units: g s^{-1}

62. fBodyAccMag-std()
    Mean value of the FFT of the temporal standard deviation of the body component of the acceleration (magnitude) over all the experiments carried out by the same user doing the same activity.
    Units: g s^{-1}

63. fBodyBodyAccJerkMag-mean()
    Mean value of the FFT of the temporal mean of the derivative of the body component of the acceleration (magnitude) over all the experiments carried out by the same user doing the same activity.
    Units: g/s s^{-1}

64. fBodyBodyAccJerkMag-std()
    Mean value of the FFT of the temporal standard deviation of the derivative of the body component of the acceleration (magnitude) over all the experiments carried out by the same user doing the same activity.
    Units: g/s s^{-1}

65. fBodyBodyGyroMag-mean()
    Mean value of the FFT of the temporal mean of the angular speed (magnitude) over all the experiments carried out by the same user doing the same activity.
    Units: g/s s^{-1}

66. fBodyBodyGyroMag-std()
    Mean value of the FFT of the temporal standard deviation of the angular speed (magnitude) over all the experiments carried out by the same user doing the same activity.
    Units: g/s s^{-1}

67. fBodyBodyGyroJerkMag-mean()
    Mean value of the FFT of the temporal mean of the derivative of the angular speed (magnitude) over all the experiments carried out by the same user doing the same activity.
    Units: g/s s^{-1}

68. fBodyBodyGyroJerkMag-std()
    Mean value of the FFT of the temporal standard deviation of the derivative of the angular speed (magnitude) over all the experiments carried out by the same user doing the same activity.
    Units: g/s s^{-1}