## Codebook for the Tidy Data Set (tidydata)

## Source:

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Overview: Represents arithmetic means of original multiple observations of 30 subjects doing 6 different activities. There were originally a 561 -feature vector with time and frequency domain variables. This dataset represents the aggregate means for those measurements for the unique combination of subject and activity. See the README.MD file for a step by step description of how the results were obtained from the raw data. Note that the original data have been normalized and bounded within [-1, 1].

No.	Column Name	R Data	Description
		Type	
1	Group.1	Integer	Unique identifier of subject. Values 1 through 30
2	Group.2	Factor	Identifies the type of activities performed by the
			subject. Values are WALKING, WALKING_UPSTAIRS,
			WALKING_DOWNSTAIRS, SITTING, STANDING, LAYING
3	tBodyAcc_mean_X	Numeric	Note: first letter <b>t</b> identifies a time variable and <b>f</b> a
4	tBodyAcc_mean_Y		frequency one (a Fast Fourier Transform (FFT) was
5	tBodyAcc_mean_Z		applied to the frequencies).
6	tBodyAcc_std_X		Body or Gravity - The sensor acceleration signal has
7	tBodyAcc_std_Y		both body and gravity components.
8	tBodyAcc_std_Z		Acc = Accelerator, Gyro = Gyroscope – measurement
9	tGravityAcc_mean_X		device used
10	tGravityAcc_mean_Y		Type of initial summary calculation is either a mean or a
11	tGravityAcc_mean_Z		standard deviation (std).
12	tGravityAcc_std_X		A Last letter of X, Y or Z identifies the movement
13	tGravityAcc_std_Y		dimension.
14	tGravityAcc_std_Z		Jerk denotes jerk signals derived from the body linear
15	tBodyAccJerk_mean_X		acceleration and angular velocity measurements.
16	tBodyAccJerk_mean_Y		Mag denotes the magnitude of the three-dimensional
17	tBodyAccJerk_mean_Z		signals using the Euclidean norm.
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_mean_z tBodyGyroJerk_std_X
	31	tBodyGyroJerk_std_Y
	32	tBodyGyroJerk_std_Z
	33	tBodyAccMag_mean
	34	,
	34 35	tBodyAccMag_std
		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
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