Codebook for tidy_data

Autogenerated data summary from dataMaid

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Project Description

The purpose of this project is to demonstrate ability to collect, work with, and clean a data set. The goal is to prepare tidy data that can be used for later analysis.

Data processing

Collection of the raw data

As per the project instructions the raw data was collected from the following URL: https://d396qusza40orc.cloudfront.net/getdata%2Fprojectfiles%2FUCI%20HAR%20Dataset.zip

the zip file contained the following related files. Observations in 'Inertial Signals' directories have been excluded from this task.

- 'README.txt': overview of experiment and descriptions of files included
- 'features_info.txt': Shows information about the variables used on the feature vector.
- 'features.txt': List of all features.
- 'activity labels.txt': Links the class labels with their activity name.
- 'train/X_train.txt': Training set.
- 'train/y_train.txt': Training labels.
- 'test/X_test.txt': Test set.
- 'test/y_test.txt': Test labels.

The following files are available for the train and test data. Their descriptions are equivalent.

• 'train/subject_train.txt': Each row identifies the subject who performed the activity for each window sample. Its range is from 1 to 30.

It was collected and used for the following publication Davide Anguita, Alessandro Ghio, Luca Oneto, Xavier Parra and Jorge L. Reyes-Ortiz. Human Activity Recognition on Smartphones using a Multiclass Hardware-Friendly Support Vector Machine. International Workshop of Ambient Assisted Living (IWAAL 2012). Vitoria-Gasteiz, Spain. Dec 2012

- Variables starting with 't' are measurments of time captured at a constant rate of 50 Hz. Then they were filtered using a median filter and a 3rd order low pass Butterworth filter with a corner frequency of 20 Hz to remove noise.
- Variables starting with 'f' had Fast Fourier Transform (FFT) applied to them and a measurement of frequency.
- Features are normalized and bounded within [-1,1].
- Each feature vector is a row on the text file.

Creating the tidy datafile

All raw data came in txt files in space separated values format. a total of 6 files needed to be assembled. 3 train files and 3 test files. both test and train files have the same number of variables. The data came without headers. Feature labels from features.txt were used as variable names. for subject_test.txt and subject_train.txt, code and subject_id was used as variable names. for y_test.txt and y_train.txt, code and activity was used. the 3 files for each group were loaded into data tables and bind together using cbind, and then merged using rbind. more details can be find in the README.md file under the section for the assemble_data function. The data included 561 feature observations as well as subject_id and activity. the instruction was to only consider the mean and standard deviation variables. those were identified by the variable labels that ended with 'mean()' and 'std()'. for example, 'tBodyAccJerk-mean()-X' 'tBodyGyroJerkMag-std()'. note that 'meanFreq()' was excluded as it was not clear from the instructions that it is needed. Regex was used in the function select_columns to select the mean and standard deviation variables. Activity values were coded from 1 to 6 and were identified in the activity-labels.txt as follows: 1 WALKING_UPSTAIRS 3 WALKING_DOWNSTAIRS 4 SITTING 5 STANDING 6 LAYING

Using **factor_activities** the codes were transformed to the corresponding labels and were lower-cased. the feature labels included of a mix of uppercase and lowercase as well as including dashes and parenthesis. <code>janitor::make_clean_names</code> was used remove symbols. Capital letters are assumed to be new word and <code>_</code> is added in front of it. All capital letters are transformed to lower case. transforming abbreviation of the prefixes 't' anf 'f' was done so that 'time' and 'freq' was used instead.

the following variables name parts remained abbreviate for the length sake: - 'acc' for accelerometer - 'freq' for frequency - 'std' for standard deviation - 'gyro' for gyroscope - 'mag' for magnitude

Guide to create the tidy data file

to reproduce this tidy procedure follow the instructions in README.md sections Setup and Run Analysis

Data report overview

The dataset examined has the following dimensions:

Feature	Result
Number of observations	10299
Number of variables	68

Codebook summary table

			# unique		
Label	Variable	Class	values	Missing	Description
	subject_id	integer	30	0.00 %	
	activity	factor	6	0.00 %	
	time_body_acc_mean_x	numeric	10292	0.00 %	
	time_body_acc_mean_y	numeric	10299	0.00 %	
	time_body_acc_mean_z	numeric	10293	0.00 %	
	time_body_acc_std_x	numeric	10295	0.00 %	
	time_body_acc_std_y	numeric	10297	0.00 %	
	time_body_acc_std_z	numeric	10297	0.00 %	
	time_gravity_acc_mean_x	numeric	10296	0.00 %	
	time_gravity_acc_mean_y	numeric	10298	0.00 %	
	time_gravity_acc_mean_z	numeric	10299	0.00 %	
	time_gravity_acc_std_x	numeric	10288	0.00 %	

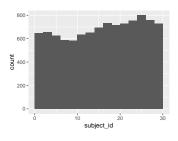
		a:	# unique		_
bel	Variable	Class	values	Missing	Descriptio
	time_gravity_acc_std_y	numeric	10293	0.00 %	<u> </u>
	time_gravity_acc_std_z	numeric	10296	0.00 %	
	time_body_acc_jerk_mean_x	numeric	10299	0.00 %	
	time_body_acc_jerk_mean_y	numeric	10299	0.00 %	
	time_body_acc_jerk_mean_z	numeric	10299	0.00 %	
	time_body_acc_jerk_std_x	numeric	10290	0.00 %	
	time_body_acc_jerk_std_y	numeric	10296	0.00 %	
	time_body_acc_jerk_std_z	numeric	10293	0.00 %	
	time_body_gyro_mean_x	numeric	10298	0.00 %	
	time_body_gyro_mean_y	numeric	10299	0.00 %	
	time_body_gyro_mean_z	numeric	10297	0.00 %	
	time_body_gyro_std_x	numeric	10292	0.00 %	
	time_body_gyro_std_y	numeric	10296	0.00 %	
	time_body_gyro_std_z	numeric	10296	0.00 %	
	time_body_gyro_jerk_mean_x	numeric	10295	0.00 %	
	time_body_gyro_jerk_mean_y	numeric	10299	0.00 %	
	time_body_gyro_jerk_mean_z	numeric	10299	0.00 %	
			10298	0.00 %	
	time_body_gyro_jerk_std_x	numeric			
	time_body_gyro_jerk_std_y	numeric	10295	0.00 %	
	time_body_gyro_jerk_std_z	numeric	10291	0.00 %	
	time_body_acc_mag_mean	numeric	10296	0.00 %	
	time_body_acc_mag_std	numeric	10294	0.00 %	
	time_gravity_acc_mag_mean	numeric	10296	0.00 %	
	time_gravity_acc_mag_std	numeric	10294	0.00 %	
	time_body_acc_jerk_mag_mean	numeric	10292	0.00 %	
	time_body_acc_jerk_mag_std	numeric	10294	0.00 %	
	time_body_gyro_mag_mean	numeric	10298	0.00 %	
	time_body_gyro_mag_std	numeric	10298	0.00 %	
	time_body_gyro_jerk_mag_mean	numeric	10293	0.00 %	
	time_body_gyro_jerk_mag_std	numeric	10297	0.00 %	
	freq_body_acc_mean_x	numeric	10295	0.00 %	
	freq_body_acc_mean_y	numeric	10292	0.00 %	
	freq_body_acc_mean_z	numeric	10295	0.00 %	
	freq_body_acc_std_x	numeric	10294	0.00 %	
	freq_body_acc_std_y	numeric	10297	0.00 %	
	freq_body_acc_std_z	numeric	10296	0.00 %	
	freq_body_acc_jerk_mean_x	numeric	10293	0.00 %	
	freq_body_acc_jerk_mean_y	numeric	10296	0.00 %	
	freq_body_acc_jerk_mean_z	numeric	10294	0.00 %	
	freq_body_acc_jerk_std_x	numeric	10291	0.00 %	
	freq_body_acc_jerk_std_y	numeric	10294	0.00 %	
	freq_body_acc_jerk_std_z	numeric	10290	0.00 %	
	freq_body_gyro_mean_x	numeric	10297	0.00 %	
	freq_body_gyro_mean_y	numeric	10297	0.00 %	
	freq_body_gyro_mean_z	numeric	10297	0.00 %	
	freq_body_gyro_std_x	numeric	10297	0.00 %	
			10297	0.00 %	
	freq_body_gyro_std_y	numeric			
	freq_body_gyro_std_z	numeric	10295	0.00 %	
	freq_body_acc_mag_mean	numeric	10296	0.00 %	
	freq_body_acc_mag_std	numeric	10298	0.00 %	
	freq_body_body_acc_jerk_mag_mean	numeric	10290	0.00 %	
	freq_body_body_acc_jerk_mag_std	numeric	10296	0.00 %	
	freq_body_body_gyro_mag_mean	numeric	10297	0.00 %	
	freq_body_body_gyro_mag_std	numeric	10296	0.00 %	

Label	Variable	Class	# unique values	Missing	Description
	freq_body_body_gyro_jerk_mag_mean freq_body_body_gyro_jerk_mag_std	numeric numeric	10293 10292	0.00 % 0.00 %	

Variable list

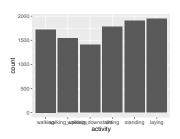
subject_id

Feature	Result
Variable type	integer
Number of missing obs.	0 (0 %)
Number of unique values	30
Median	17
1st and 3rd quartiles	9; 24
Min. and max.	1; 30



activity

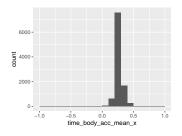
Feature	Result
Variable type	factor
Number of missing obs.	0 (0 %)
Number of unique values	6
Mode	"laying"
Reference category	walking



• Observed factor levels: "laying", "sitting", "standing", "walking", "walking_downstairs", "walking_upstairs".

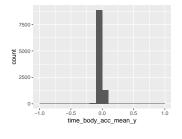
time_body_acc_mean_x

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	10292
Median	0.28
1st and 3rd quartiles	0.26; 0.29
Min. and max.	-1; 1



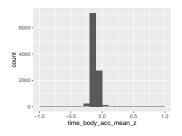
time_body_acc_mean_y

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	10299
Median	-0.02
1st and 3rd quartiles	-0.02; -0.01
Min. and max.	-1; 1



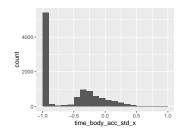
time_body_acc_mean_z

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	10293
Median	-0.11
1st and 3rd quartiles	-0.12; -0.1
Min. and max.	-1; 1



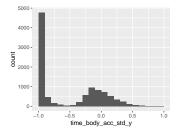
time_body_acc_std_x

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	10295
Median	-0.94
1st and 3rd quartiles	-0.99; -0.25
Min. and max.	-1; 1



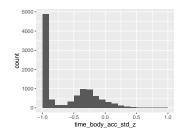
time_body_acc_std_y

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	10297
Median	-0.84
1st and 3rd quartiles	-0.98; -0.06
Min. and max.	-1; 1



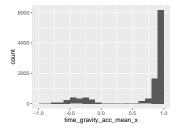
time_body_acc_std_z

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	10297
Median	-0.85
1st and 3rd quartiles	-0.98; -0.28
Min. and max.	-1; 1



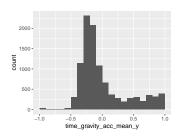
time_gravity_acc_mean_x

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	10296
Median	0.92
1st and 3rd quartiles	0.81; 0.95
Min. and max.	-1; 1



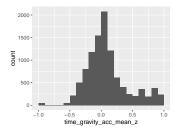
time_gravity_acc_mean_y

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	10298
Median	-0.14
1st and 3rd quartiles	-0.24; 0.12
Min. and max.	-1; 1



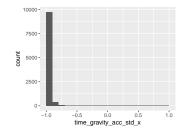
time_gravity_acc_mean_z

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	10299
Median	0.04
1st and 3rd quartiles	-0.12; 0.22
Min. and max.	-1; 1



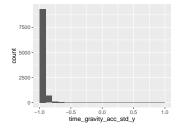
time_gravity_acc_std_x

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	10288
Median	-0.98
1st and 3rd quartiles	-0.99; -0.96
Min. and max.	-1; 1



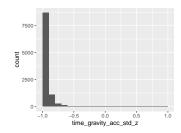
time_gravity_acc_std_y

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	10293
Median	-0.98
1st and 3rd quartiles	-0.99; -0.95
Min. and max.	-1; 1



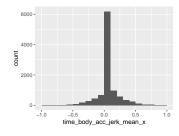
time_gravity_acc_std_z

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	10296
Median	-0.97
1st and 3rd quartiles	-0.99; -0.93
Min. and max.	-1; 1



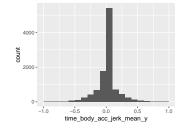
time_body_acc_jerk_mean_x

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	10299
Median	0.08
1st and 3rd quartiles	0.06; 0.09
Min. and max.	-1; 1



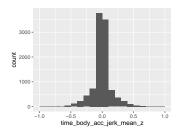
time_body_acc_jerk_mean_y

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	10299
Median	0.01
1st and 3rd quartiles	-0.02; 0.03
Min. and max.	-1; 1



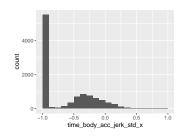
time_body_acc_jerk_mean_z

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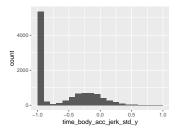
time_body_acc_jerk_std_x

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	10290
Median	-0.95
1st and 3rd quartiles	-0.99; -0.29
Min. and max.	-1; 1



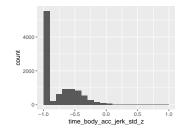
time_body_acc_jerk_std_y

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	10296
Median	-0.93
1st and 3rd quartiles	-0.99; -0.22
Min. and max.	-1; 1



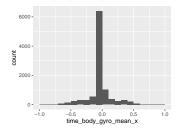
time_body_acc_jerk_std_z

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	10293
Median	-0.95
1st and 3rd quartiles	-0.99; -0.55
Min. and max.	-1; 1



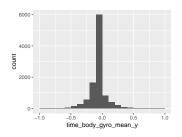
time_body_gyro_mean_x

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	10298
Median	-0.03
1st and 3rd quartiles	-0.05; -0.01
Min. and max.	-1; 1



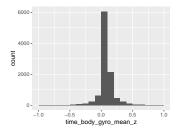
time_body_gyro_mean_y

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	10299
Median	-0.07
1st and 3rd quartiles	-0.1; -0.05
Min. and max.	-1; 1



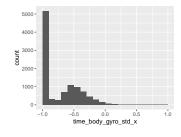
time_body_gyro_mean_z

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	10297
Median	0.09
1st and 3rd quartiles	0.06; 0.11
Min. and max.	-1; 1



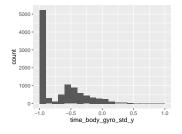
time_body_gyro_std_x

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	10292
Median	-0.9
1st and 3rd quartiles	-0.99; -0.48
Min. and max.	-1; 1



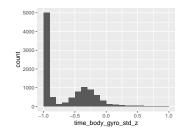
time_body_gyro_std_y

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	10296
Median	-0.91
1st and 3rd quartiles	-0.98; -0.45
Min. and max.	-1; 1



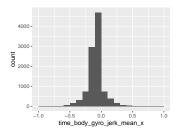
time_body_gyro_std_z

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	10296
Median	-0.88
1st and 3rd quartiles	-0.99; -0.34
Min. and max.	-1; 1



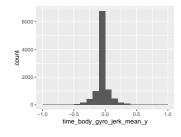
time_body_gyro_jerk_mean_x

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	10295
Median	-0.1
1st and 3rd quartiles	-0.12; -0.08
Min. and max.	-1; 1



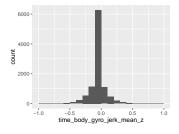
time_body_gyro_jerk_mean_y

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	10299
Median	-0.04
1st and 3rd quartiles	-0.06; -0.03
Min. and max.	-1; 1



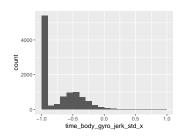
time_body_gyro_jerk_mean_z

Feature	Result
reacure	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	10298
Median	-0.05
1st and 3rd quartiles	-0.08; -0.03
Min. and max.	-1; 1



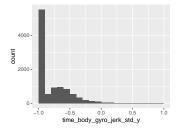
$time_body_gyro_jerk_std_x$

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	10292
Median	-0.93
1st and 3rd quartiles	-0.99; -0.49
Min. and max.	-1; 1



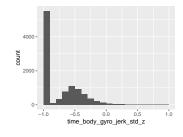
time_body_gyro_jerk_std_y

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	10295
Median	-0.95
1st and 3rd quartiles -	0.99; -0.63
Min. and max.	-1; 1



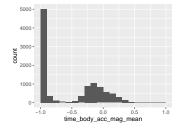
time_body_gyro_jerk_std_z

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	10291
Median	-0.95
1st and 3rd quartiles	-0.99; -0.51
Min. and max.	-1; 1



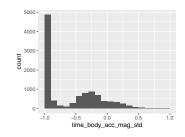
time_body_acc_mag_mean

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	10296
Median	-0.87
1st and 3rd quartiles	-0.98; -0.12
Min. and max.	-1; 1



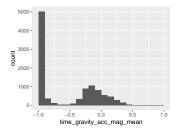
time_body_acc_mag_std

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	10294
Median	-0.84
1st and 3rd quartiles	-0.98; -0.24
Min. and max.	-1; 1



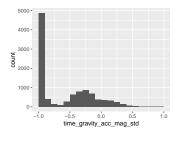
time_gravity_acc_mag_mean

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	10296
Median	-0.87
1st and 3rd quartiles	-0.98; -0.12
Min. and max.	-1; 1



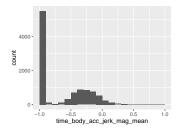
time_gravity_acc_mag_std

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	10294
Median	-0.84
1st and 3rd quartiles	-0.98; -0.24
Min. and max.	-1; 1



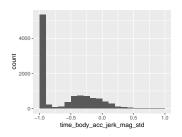
time_body_acc_jerk_mag_mean

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	10292
Median	-0.95
1st and 3rd quartiles	-0.99; -0.3
Min. and max.	-1; 1



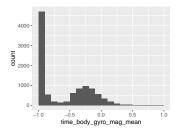
time_body_acc_jerk_mag_std

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	10294
Median	-0.93
1st and 3rd quartiles	-0.99; -0.27
Min. and max.	-1; 1



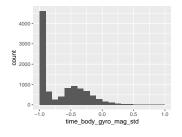
time_body_gyro_mag_mean

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	10298
Median	-0.82
1st and 3rd quartiles	-0.98; -0.25
Min. and max.	-1; 1



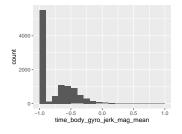
time_body_gyro_mag_std

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	10298
Median	-0.83
1st and 3rd quartiles	-0.98; -0.39
Min. and max.	-1; 1



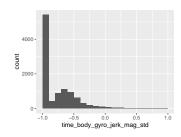
time_body_gyro_jerk_mag_mean

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	10293
Median	-0.96
1st and 3rd quartiles	-0.99; -0.55
Min. and max.	-1; 1



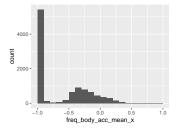
time_body_gyro_jerk_mag_std

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	10297
Median	-0.94
1st and 3rd quartiles	-0.99; -0.61
Min. and max.	-1; 1



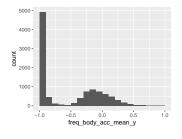
freq_body_acc_mean_x

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	10295
Median	-0.95
1st and 3rd quartiles	-0.99; -0.26
Min. and max.	-1; 1



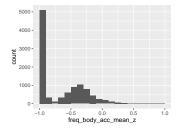
freq_body_acc_mean_y

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	10292
Median	-0.86
1st and 3rd quartiles	-0.98; -0.1
Min. and max.	-1; 1



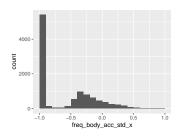
freq_body_acc_mean_z

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	10295
Median	-0.9
1st and 3rd quartiles	-0.98; -0.37
Min. and max.	-1; 1



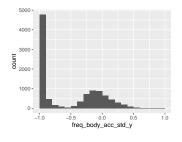
freq_body_acc_std_x

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	10294
Median	-0.94
1st and 3rd quartiles	-0.99; -0.25
Min. and max.	-1; 1



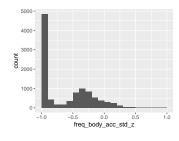
freq_body_acc_std_y

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	10297
Median	-0.83
1st and 3rd quartiles	-0.98; -0.09
Min. and max.	-1; 1



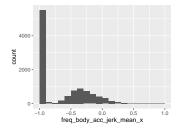
freq_body_acc_std_z

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	10296
Median	-0.84
1st and 3rd quartiles	-0.98; -0.3
Min. and max.	-1; 1



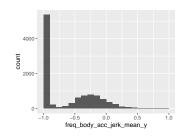
freq_body_acc_jerk_mean_x

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	10293
Median	-0.95
1st and 3rd quartiles	-0.99; -0.33
Min. and max.	-1; 1
•	·



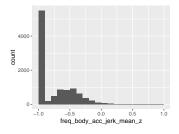
freq_body_acc_jerk_mean_y

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	10296
Median	-0.93
1st and 3rd quartiles	-0.98; -0.26
Min. and max.	-1; 1



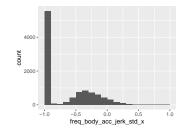
freq_body_acc_jerk_mean_z

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	10294
Median	-0.95
1st and 3rd quartiles	-0.99; -0.51
Min. and max.	-1; 1



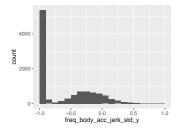
freq_body_acc_jerk_std_x

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	10291
Median	-0.96
1st and 3rd quartiles	-0.99; -0.32
Min. and max.	-1; 1



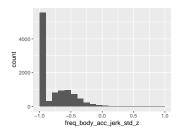
freq_body_acc_jerk_std_y

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	10294
Median	-0.93
1st and 3rd quartiles	-0.99; -0.24
Min. and max.	-1; 1



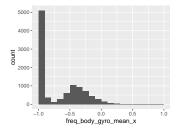
$freq_body_acc_jerk_std_z$

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	10290
Median	-0.96
1st and 3rd quartiles	-0.99; -0.59
Min. and max.	-1; 1



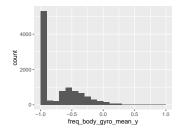
freq_body_gyro_mean_x

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	10297
Median	-0.89
1st and 3rd quartiles	-0.99; -0.38
Min. and max.	-1; 1

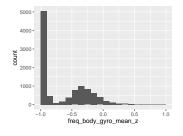


freq_body_gyro_mean_y

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	10296
Median	-0.92
1st and 3rd quartiles	-0.98; -0.47
Min. and max.	-1; 1

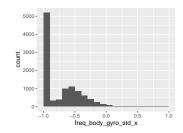


freq_body_gyro_mean_z



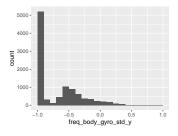
$freq_body_gyro_std_x$

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	10297
Median	-0.91
1st and 3rd quartiles	-0.99; -0.52
Min. and max.	-1; 1



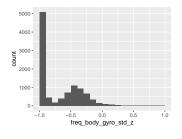
freq_body_gyro_std_y

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	10293
Median	-0.91
1st and 3rd quartiles	-0.98; -0.44
Min. and max.	-1; 1



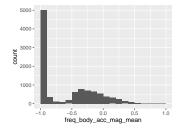
freq_body_gyro_std_z

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	10295
Median	-0.89
1st and 3rd quartiles	-0.99; -0.42
Min. and max.	-1; 1



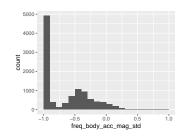
freq_body_acc_mag_mean

Result
numeric
0 (0 %)
10296
-0.88
-0.98; -0.22
-1; 1



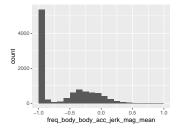
freq_body_acc_mag_std

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	10298
Median	-0.85
1st and 3rd quartiles	-0.98; -0.38
Min. and max.	-1; 1



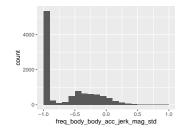
freq_body_body_acc_jerk_mag_mean

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	10290
Median	-0.93
1st and 3rd quartiles	-0.99; -0.26
Min. and max.	-1; 1



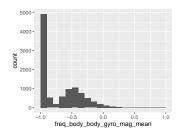
freq_body_body_acc_jerk_mag_std

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	10296
Median	-0.93
1st and 3rd quartiles	-0.99; -0.31
Min. and max.	-1; 1



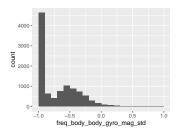
freq_body_body_gyro_mag_mean

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	10297
Median	-0.88
1st and 3rd quartiles	-0.98; -0.45
Min. and max.	-1; 1



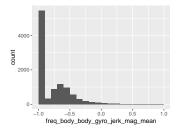
freq_body_body_gyro_mag_std

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	10296
Median	-0.83
1st and 3rd quartiles	-0.98; -0.47
Min. and max.	-1; 1



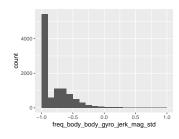
freq_body_body_gyro_jerk_mag_mean

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	10293
Median	-0.95
1st and 3rd quartiles	-0.99; -0.61
Min. and max.	-1; 1



freq_body_body_gyro_jerk_mag_std

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	10292
Median	-0.94
1st and 3rd quartiles	-0.99; -0.64
Min. and max.	-1; 1



Report generation information:

- Created by: Doron Feingold (username: doronfeingold).
- Report creation time: Sat Jan 25 2025 14:27:38
- Report was run from directory: /Users/doronfeingold/Documents/Johns Hopkins/Data Science/Getting and Cleaning Data/FinalProject
- dataMaid v1.4.1 [Pkg: 2021-10-08 from CRAN (R 4.4.0)]
- R version 4.4.2 (2024-10-31).
- Platform: x86_64-apple-darwin20(America/Toronto).
- Function call: dataMaid::makeDataReport(data = tables\$tidy_data, mode = c("summarize",
 "visualize", "check"), smartNum = FALSE, file = "codebook_tables_tidy_data.Rmd", checks
 = list(character = "showAllFactorLevels", factor = "showAllFactorLevels", labelled
 = "showAllFactorLevels", haven_labelled = "showAllFactorLevels", numeric = NULL,
 integer = NULL, logical = NULL, Date = NULL), listChecks = FALSE, maxProbVals = Inf,
 codebook = TRUE, reportTitle = "Codebook for tables\$tidy_data")