

Codebook

The data was collected from the accelerometers from the Samsung Galaxy S smartphone. A full description is available at the site where the data was obtained:

<http://archive.ics.uci.edu/ml/datasets/Human+Activity+Recognition+Using+Smartphones>

Here are the data for the project:

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

For each measurement we selected only the measurements on the mean and standard deviation for each measurement, that is to say that contains “mean” or “std” in its names, and additionally applied the average of each variable for each activity and each subject.

Summarizing the data in this data set of 55 variables and 180 entries.

Codebook summary table

Variable	Class	# unique values	Missing
Subject	integer	30	0.00 %
ActivityName	character	6	0.00 %
bodyAcc.mean...X	numeric	180	0.00 %
bodyAcc.mean...Y	numeric	180	0.00 %
bodyAcc.mean...Z	numeric	180	0.00 %
bodyAcc.std...X	numeric	180	0.00 %
bodyAcc.std...Y	numeric	180	0.00 %
bodyAcc.std...Z	numeric	180	0.00 %
GravityAcc.mean...X	numeric	180	0.00 %
GravityAcc.mean...Y	numeric	180	0.00 %
GravityAcc.mean...Z	numeric	180	0.00 %
GravityAcc.std...X	numeric	180	0.00 %
GravityAcc.std...Y	numeric	180	0.00 %
GravityAcc.std...Z	numeric	180	0.00 %
BodyAccJerk.mean...X	numeric	180	0.00 %

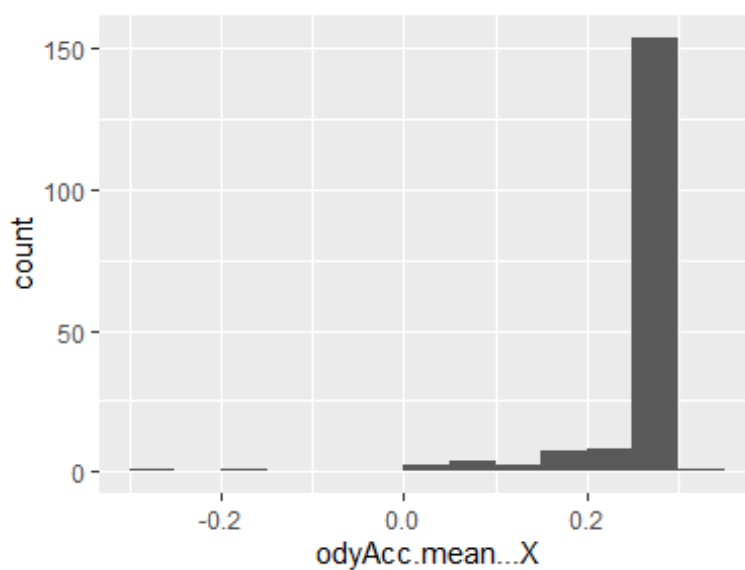
BodyAccJerk.mean...Y	numeric	180	0.00 %
BodyAccJerk.mean...Z	numeric	180	0.00 %
BodyAccJerk.std...X	numeric	180	0.00 %
BodyAccJerk.std...Y	numeric	180	0.00 %
BodyAccJerk.std...Z	numeric	180	0.00 %
tBodyGyro.mean...X	numeric	180	0.00 %
tBodyGyro.mean...Y	numeric	180	0.00 %
tBodyGyro.mean...Z	numeric	180	0.00 %
tBodyGyro.std...X	numeric	180	0.00 %
tBodyGyro.std...Y	numeric	180	0.00 %
tBodyGyro.std...Z	numeric	180	0.00 %
tBodyGyroJerk.mean...X	numeric	180	0.00 %
tBodyGyroJerk.mean...Y	numeric	180	0.00 %
tBodyGyroJerk.mean...Z	numeric	180	0.00 %
tBodyGyroJerk.std...X	numeric	180	0.00 %
tBodyGyroJerk.std...Y	numeric	180	0.00 %
tBodyGyroJerk.std...Z	numeric	180	0.00 %
tBodyAccMag.mean..	numeric	180	0.00 %
tBodyAccMag.std..	numeric	180	0.00 %
tGravityAccMag.mean..	numeric	180	0.00 %
tGravityAccMag.std..	numeric	180	0.00 %
tBodyAccJerkMag.mean..	numeric	180	0.00 %
tBodyAccJerkMag.std..	numeric	180	0.00 %
tBodyGyroMag.mean..	numeric	180	0.00 %
tBodyGyroMag.std..	numeric	180	0.00 %
tBodyGyroJerkMag.mean..	numeric	180	0.00 %
tBodyGyroJerkMag.std..	numeric	180	0.00 %
fBodyAcc.mean...X	numeric	180	0.00 %
fBodyAcc.mean...Y	numeric	180	0.00 %
fBodyAcc.mean...Z	numeric	180	0.00 %
fBodyAcc.std...X	numeric	180	0.00 %
fBodyAcc.std...Y	numeric	180	0.00 %
fBodyAcc.std...Z	numeric	180	0.00 %
fBodyAcc.meanFreq...X	numeric	180	0.00 %
fBodyAcc.meanFreq...Y	numeric	180	0.00 %

fBodyAcc.meanFreq...Z	numeric	180	0.00 %
fBodyAccJerk.mean...X	numeric	180	0.00 %
fBodyAccJerk.mean...Y	numeric	180	0.00 %
fBodyAccJerk.mean...Z	numeric	180	0.00 %
fBodyAccJerk.std...X	numeric	180	0.00 %

Variable list

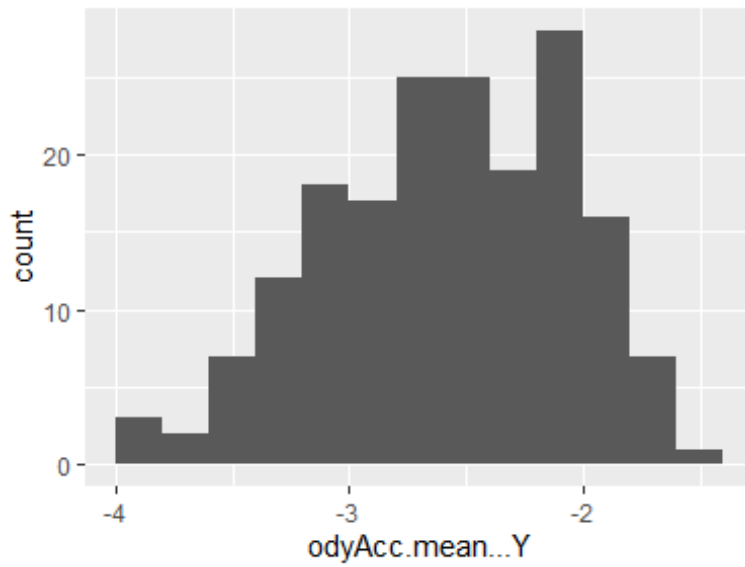
odyAcc.mean...X

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	180
Median	0.28
1st and 3rd quartiles	0.27; 0.28
Min. and max.	-0.26; 0.3



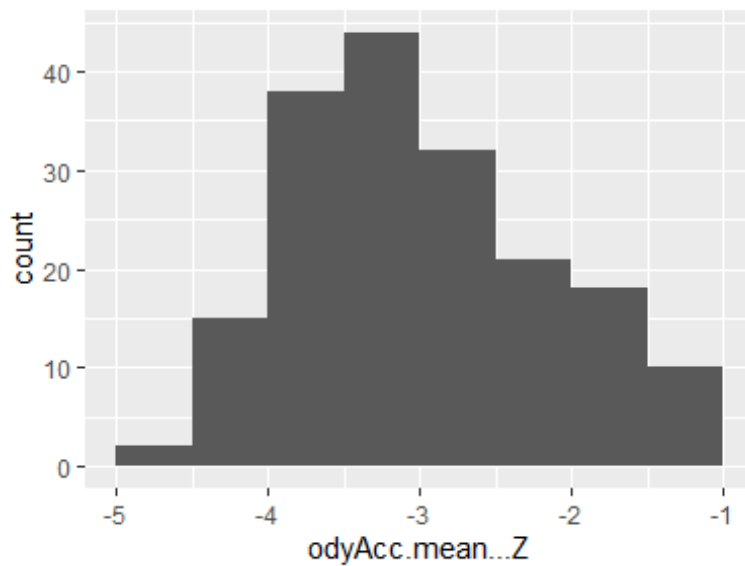
odyAcc.mean...Y

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	180
Median	-2.57
1st and 3rd quartiles	-2.93; -2.15
Min. and max.	-3.98; -1.59



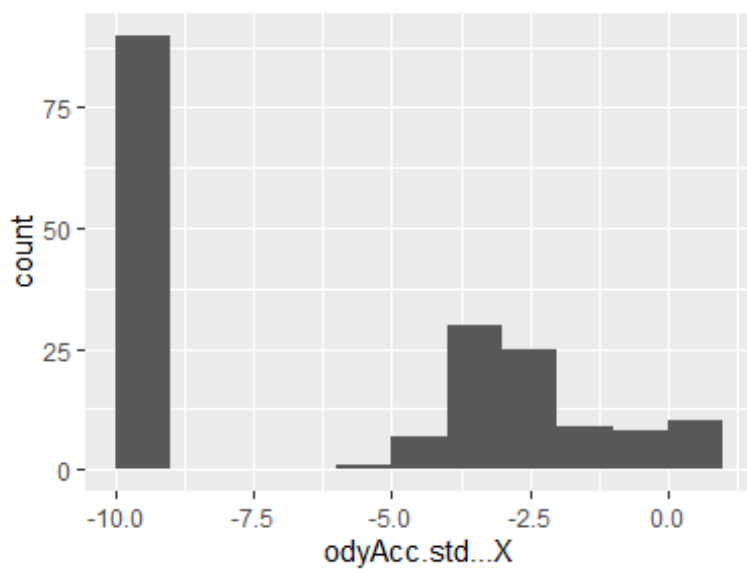
odyAcc.mean...Z

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	180
Median	-3.17
1st and 3rd quartiles	-3.59; -2.44
Min. and max.	-4.8; -1.09



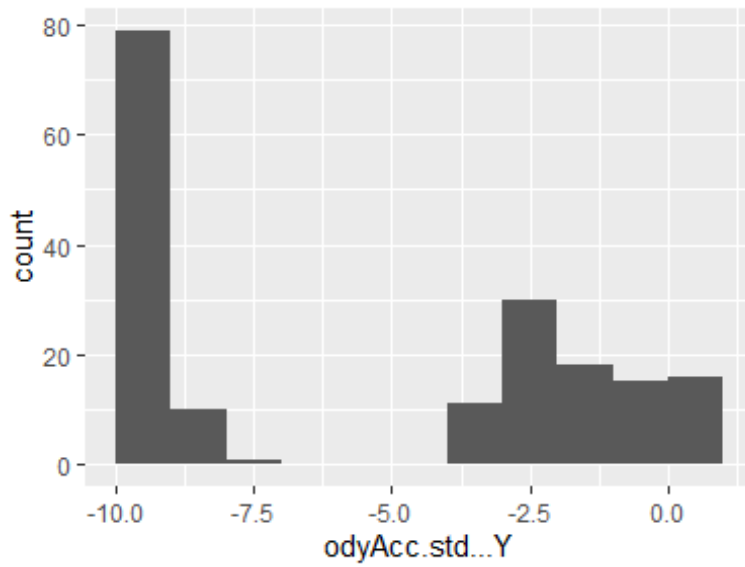
odyAcc.std...X

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	180
Median	-7.53
1st and 3rd quartiles	-9.8; -2.9
Min. and max.	-9.96; 0.63



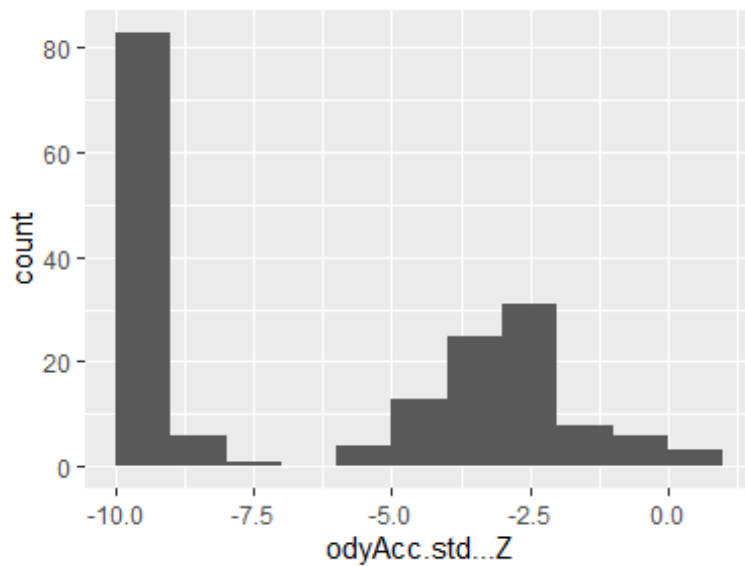
odyAcc.std...Y

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	180
Median	-5.43
1st and 3rd quartiles	-9.42; -1.91
Min. and max.	-9.9; 0.62



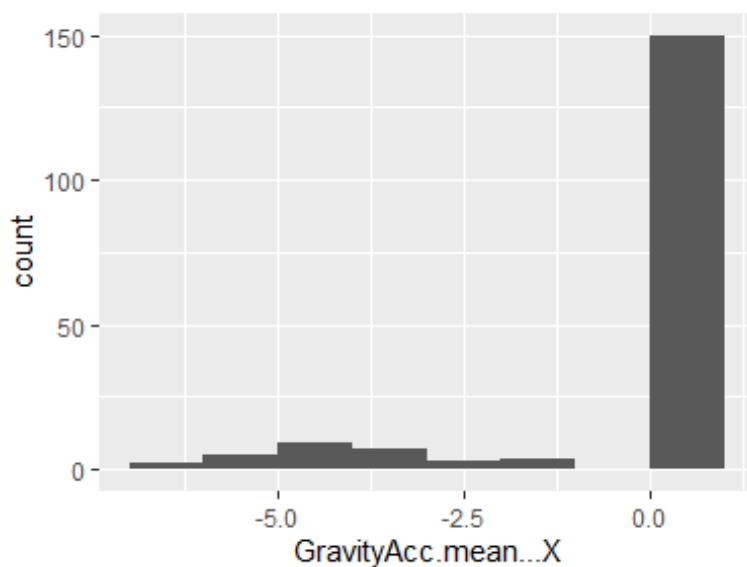
odyAcc.std...Z

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	180
Median	-6.66
1st and 3rd quartiles	-9.5; -2.97
Min. and max.	-9.88; 0.61



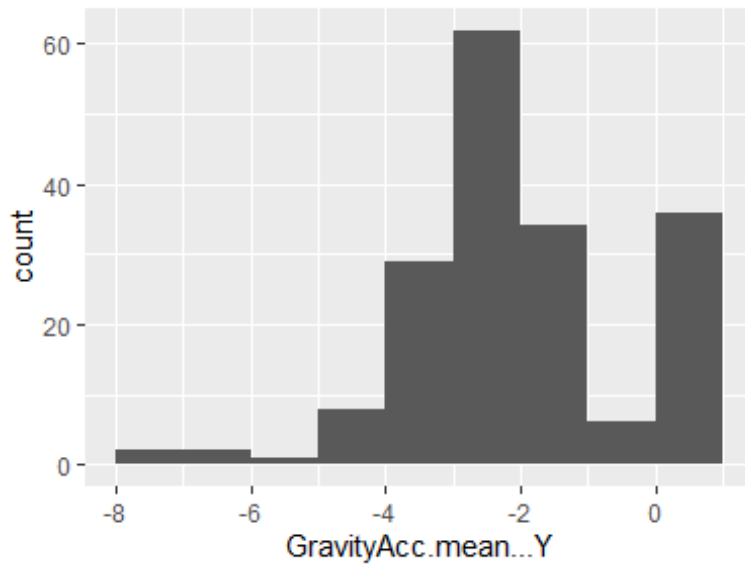
GravityAcc.mean...X

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	180
Median	0.92
1st and 3rd quartiles	0.84; 0.94
Min. and max.	-6.8; 0.97



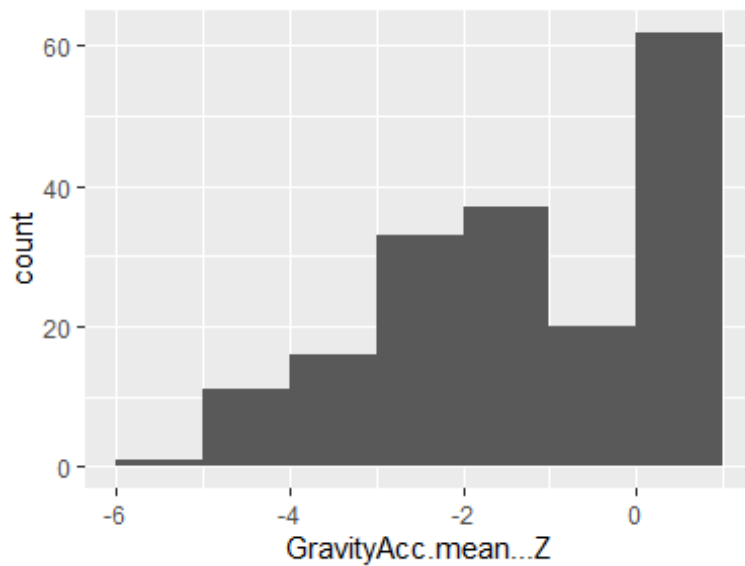
GravityAcc.mean...Y

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	180
Median	-2.18
1st and 3rd quartiles	-2.84; -1.06
Min. and max.	-7.22; 0.96



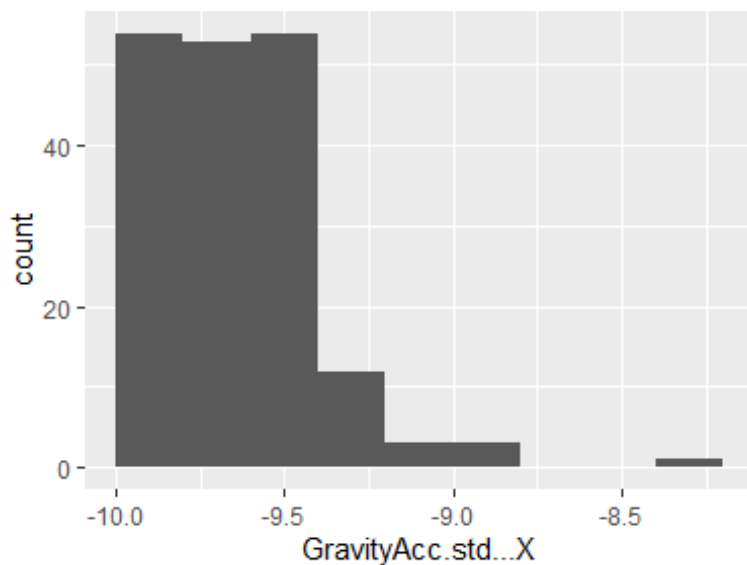
GravityAcc.mean...Z

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	180
Median	-1.2
1st and 3rd quartiles	-2.41; 0.13
Min. and max.	-5.76; 0.96



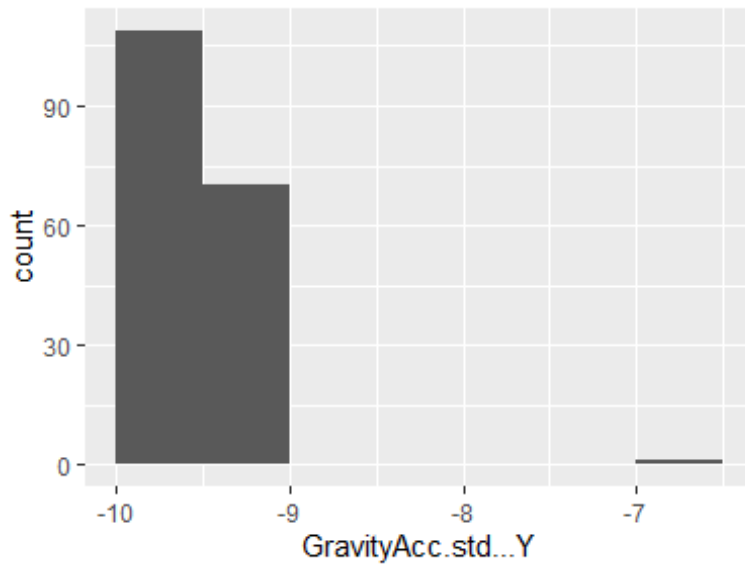
GravityAcc.std...X

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	180
Median	-9.69
1st and 3rd quartiles	-9.82; -9.51
Min. and max.	-9.97; -8.3



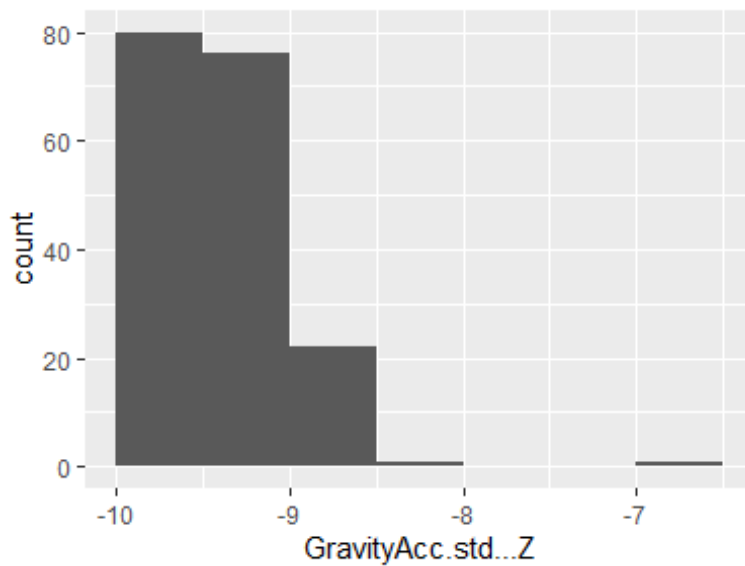
GravityAcc.std...Y

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	180
Median	-9.59
1st and 3rd quartiles	-9.71; -9.37
Min. and max.	-9.94; -6.94



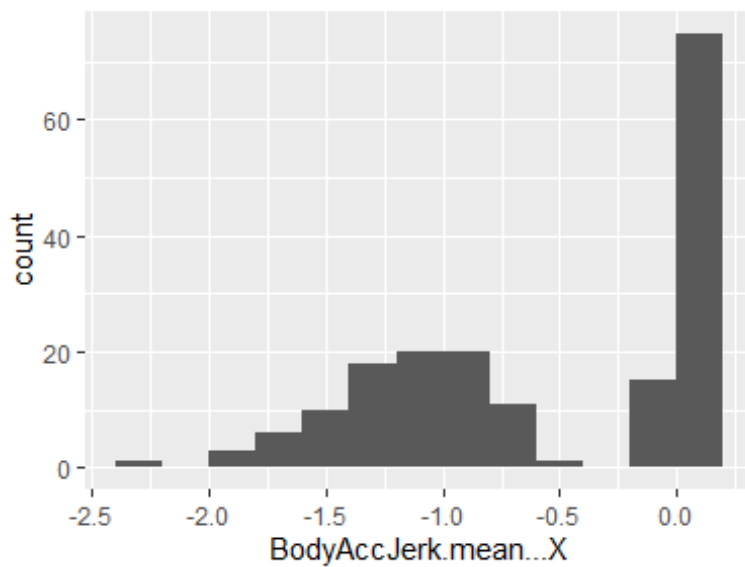
GravityAcc.std...Z

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	180
Median	-9.46
1st and 3rd quartiles	-9.61; -9.19
Min. and max.	-9.91; -6.53



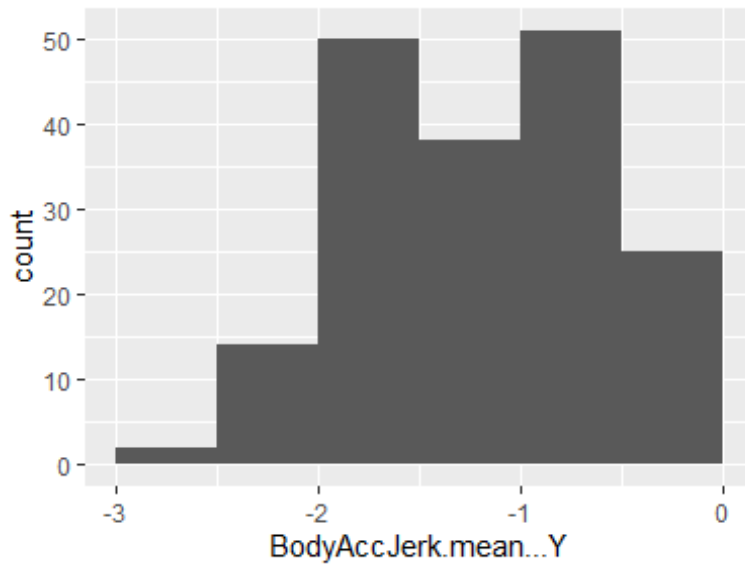
BodyAccJerk.mean...X

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	180
Median	-0.37
1st and 3rd quartiles	-1.13; 0.08
Min. and max.	-2.3; 0.1



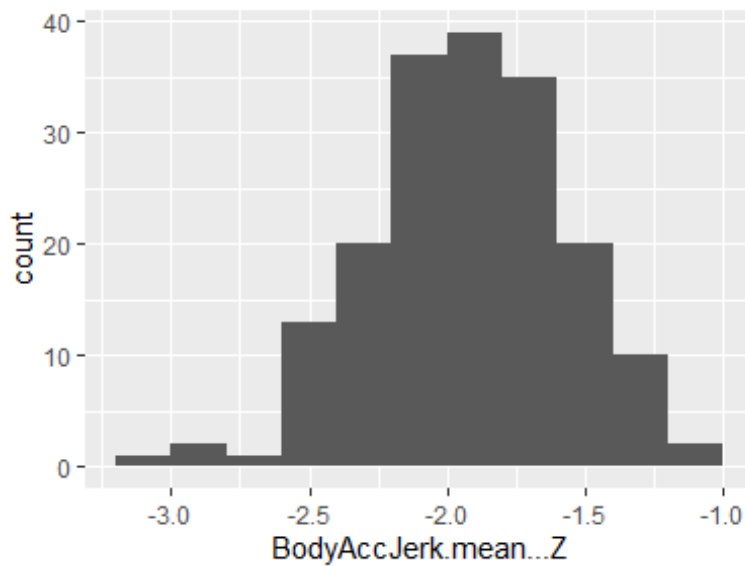
BodyAccJerk.mean...Y

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	180
Median	-1.25
1st and 3rd quartiles	-1.7; -0.64
Min. and max.	-2.65; -0.02



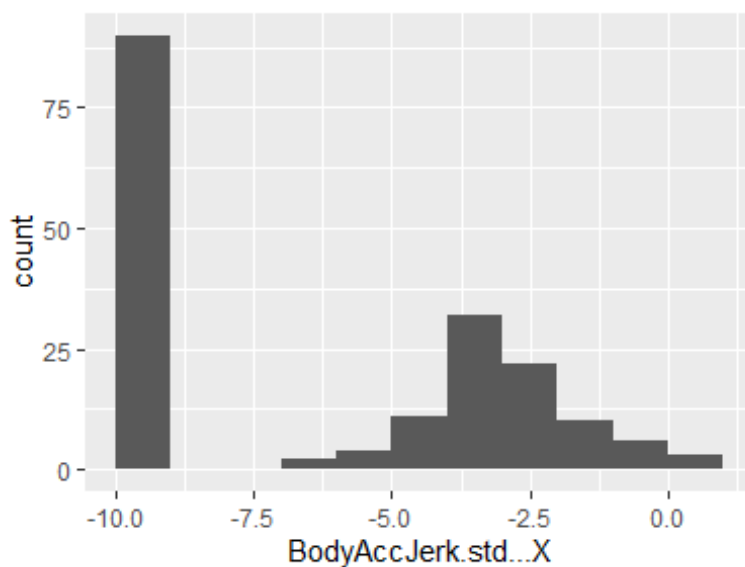
BodyAccJerk.mean...Z

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	180
Median	-1.94
1st and 3rd quartiles	-2.13; -1.69
Min. and max.	-3.19; -1.06



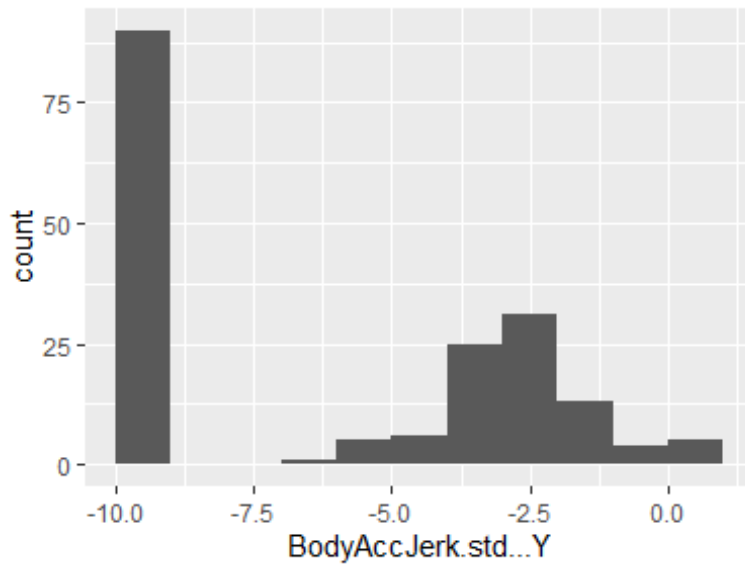
BodyAccJerk.std...X

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	180
Median	-8.1
1st and 3rd quartiles	-9.82; -3.1
Min. and max.	-9.95; 0.54



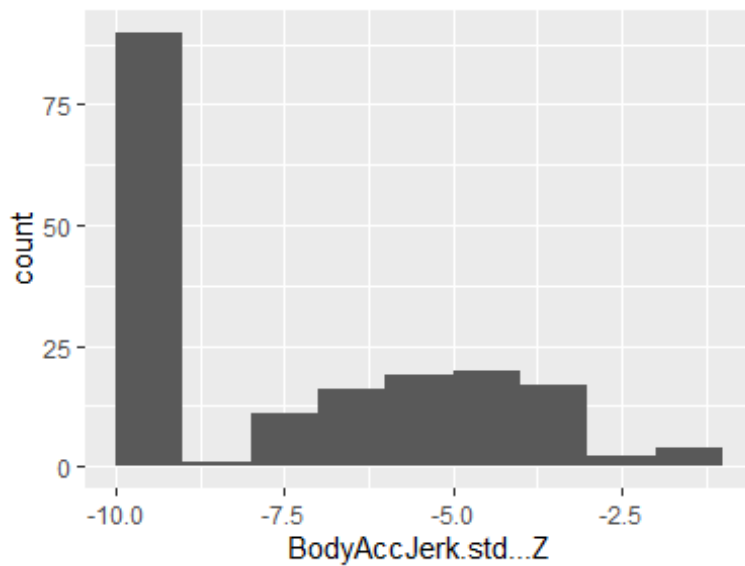
BodyAccJerk.std...Y

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	180
Median	-7.76
1st and 3rd quartiles	-9.72; -2.76
Min. and max.	-9.9; 0.22



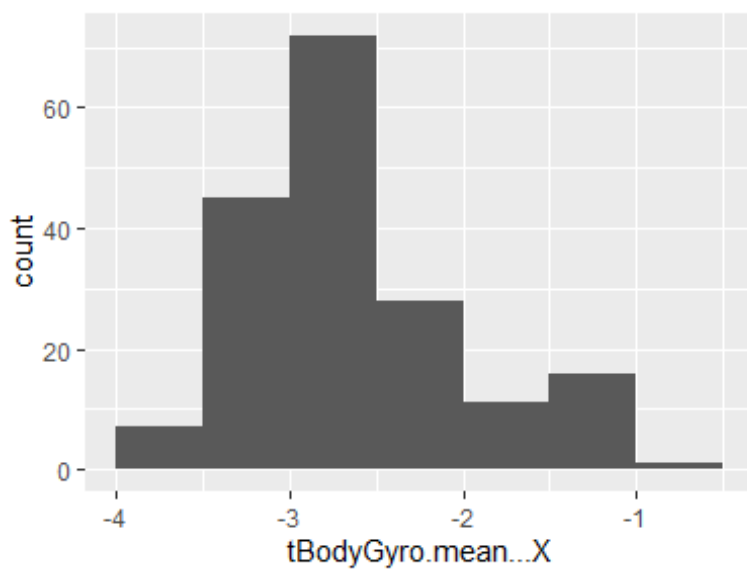
BodyAccJerk.std...Z

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	180
Median	-8.84
1st and 3rd quartiles	-9.82; -5.12
Min. and max.	-9.93; -1.43



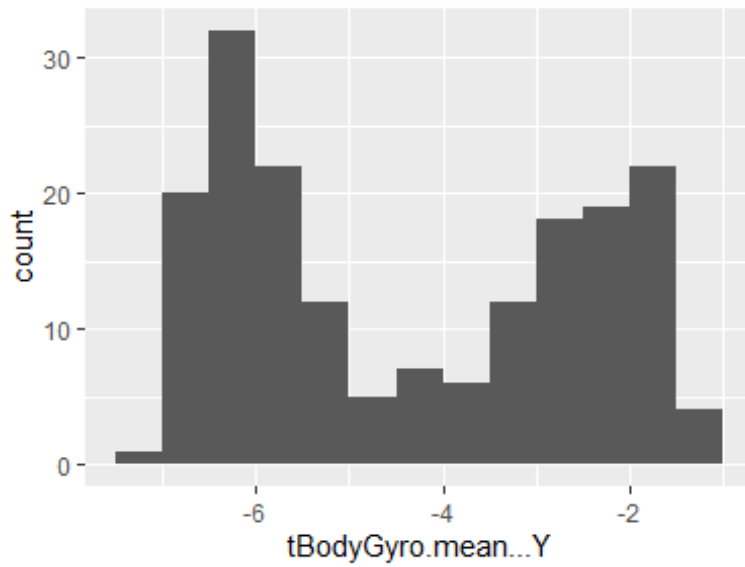
tBodyGyro.mean...X

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	180
Median	-2.77
1st and 3rd quartiles	-3.04; -2.37
Min. and max.	-3.89; -0.79



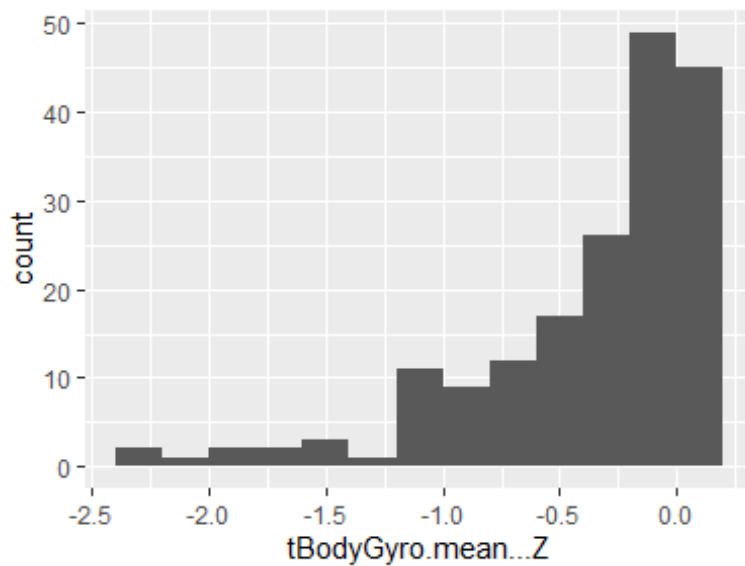
tBodyGyro.mean...Y

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	180
Median	-4.6
1st and 3rd quartiles	-6.14; -2.5
Min. and max.	-7.21; -1.39



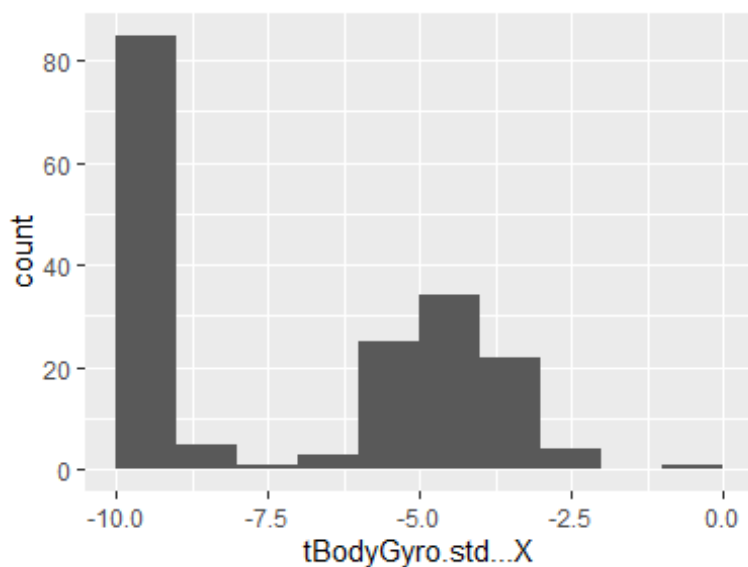
tBodyGyro.mean...Z

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	180
Median	-0.18
1st and 3rd quartiles	-0.57; 0
Min. and max.	-2.23; 0.18



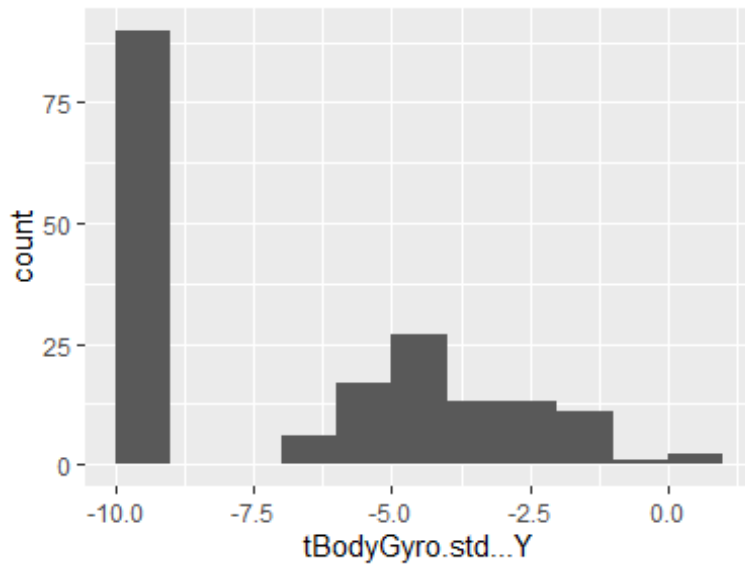
tBodyGyro.std...X

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	180
Median	-7.94
1st and 3rd quartiles	-9.73; -4.45
Min. and max.	-9.94; -0.11



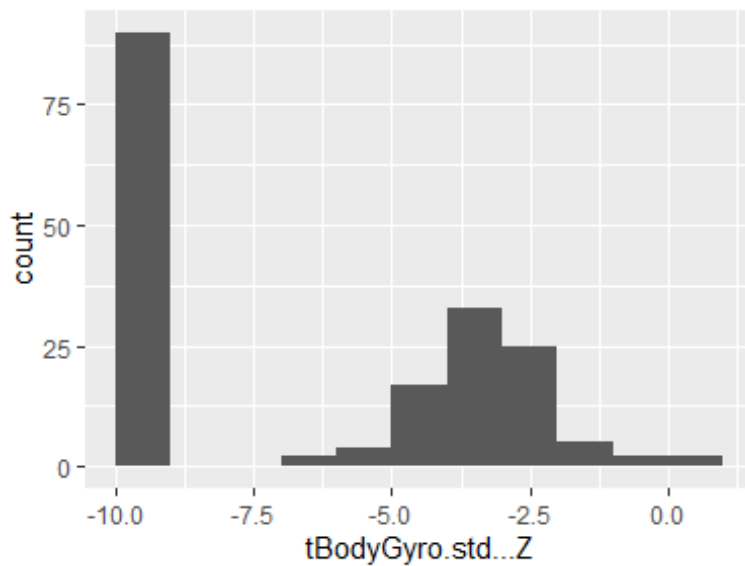
tBodyGyro.std...Y

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	180
Median	-8.02
1st and 3rd quartiles	-9.63; -4.3
Min. and max.	-9.94; 0.48



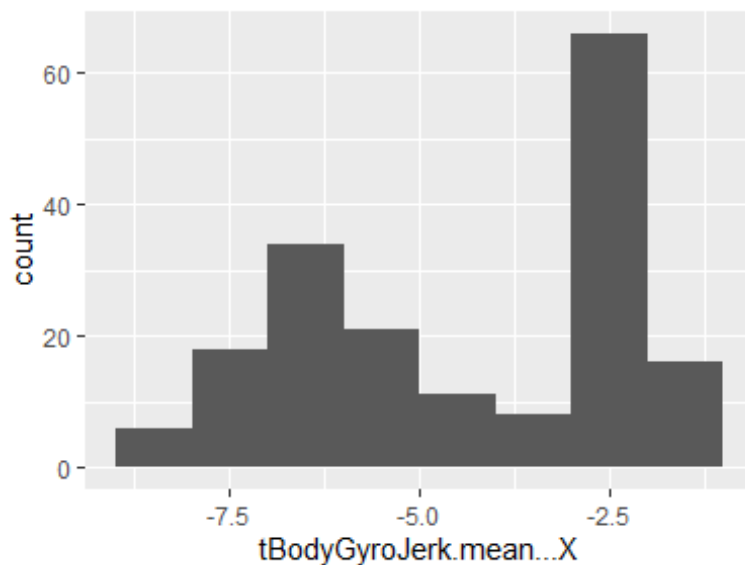
tBodyGyro.std...Z

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	180
Median	-8.01
1st and 3rd quartiles	-9.61; -3.22
Min. and max.	-9.86; 0.56



tBodyGyroJerk.mean...X

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	180
Median	-3.75
1st and 3rd quartiles	-6.27; -2.41
Min. and max.	-8.47; -1.4



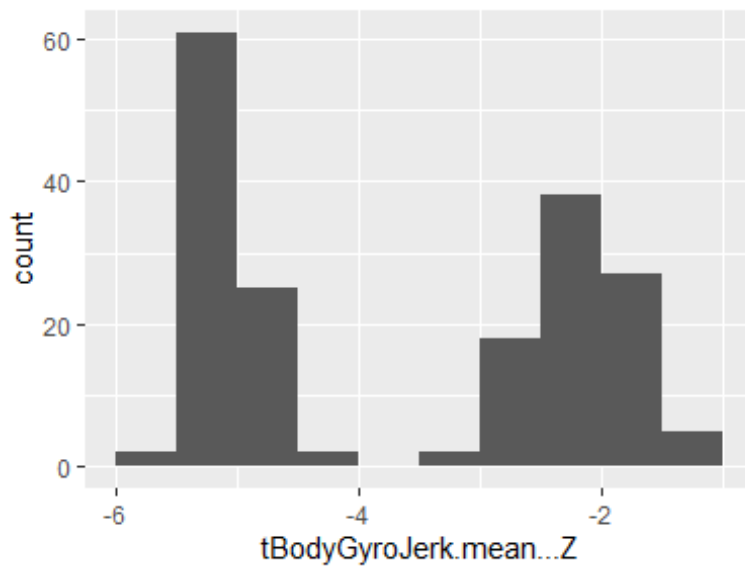
tBodyGyroJerk.mean...Y

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	180
Median	-3.4
1st and 3rd quartiles	-4; -2.23
Min. and max.	-4.41; -1.06



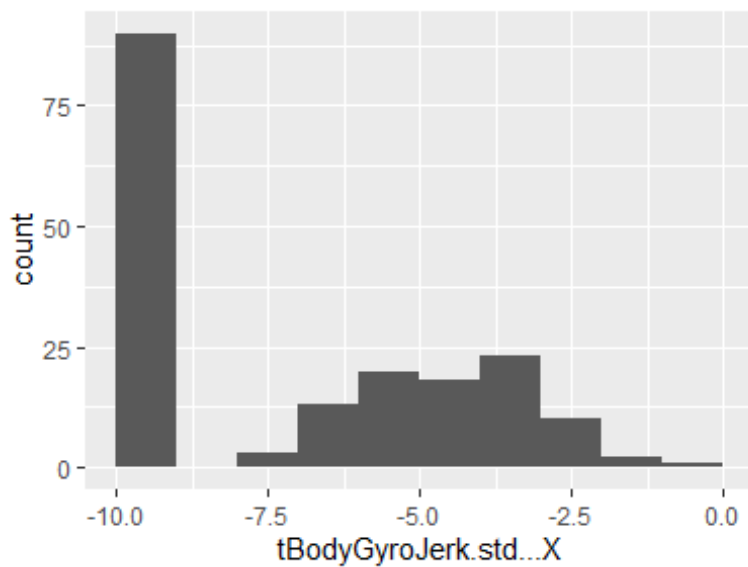
tBodyGyroJerk.mean...Z

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	180
Median	-3.85
1st and 3rd quartiles	-5.13; -2.11
Min. and max.	-5.59; -1.35



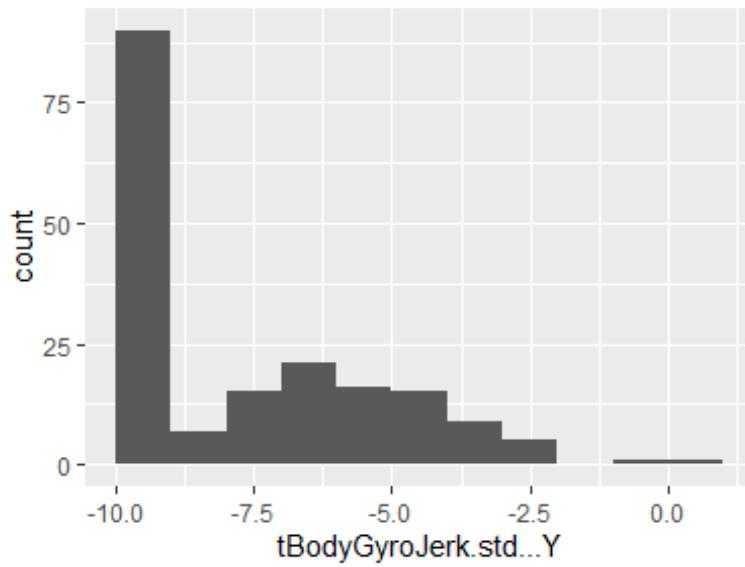
tBodyGyroJerk.std...X

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	180
Median	-8.4
1st and 3rd quartiles	-9.79; -4.63
Min. and max.	-9.97; -0.85



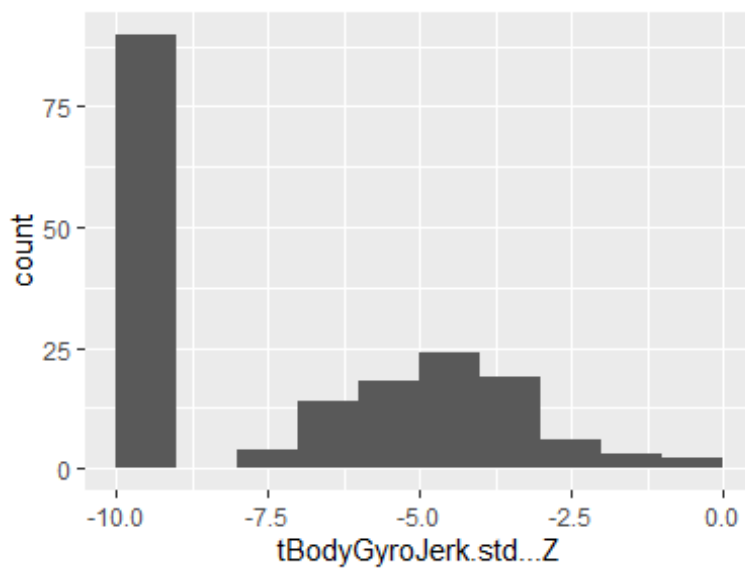
tBodyGyroJerk.std...Y

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	180
Median	-8.94
1st and 3rd quartiles	-9.83; -5.86
Min. and max.	-9.97; 0.2



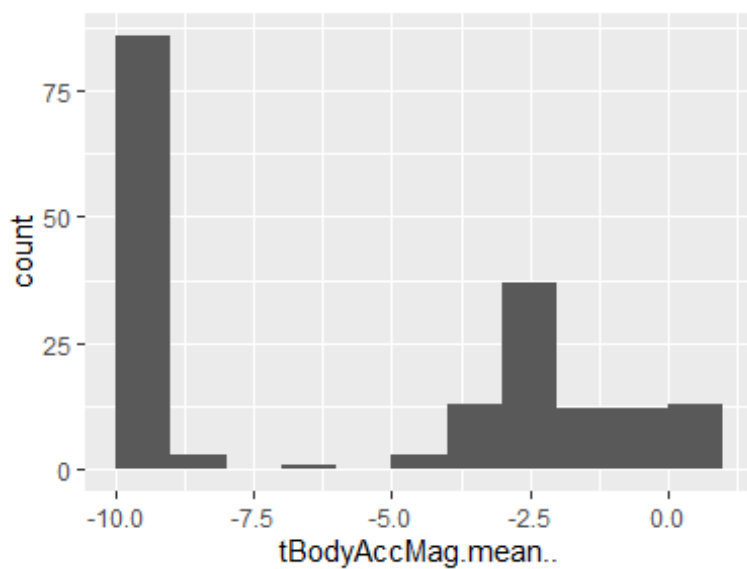
tBodyGyroJerk.std...Z

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	180
Median	-8.61
1st and 3rd quartiles	-9.84; -4.74
Min. and max.	-9.95; -0.44



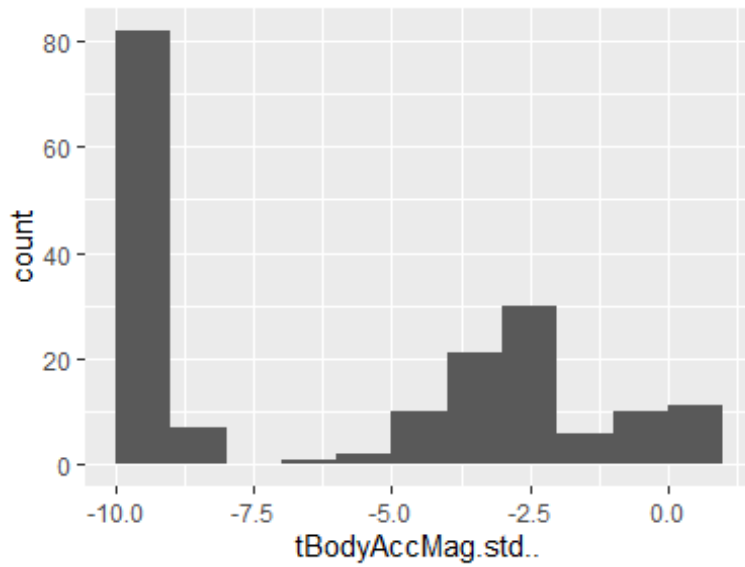
tBodyAccMag.mean..

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	180
Median	-5.1
1st and 3rd quartiles	-9.57; -2.29
Min. and max.	-9.86; 0.64



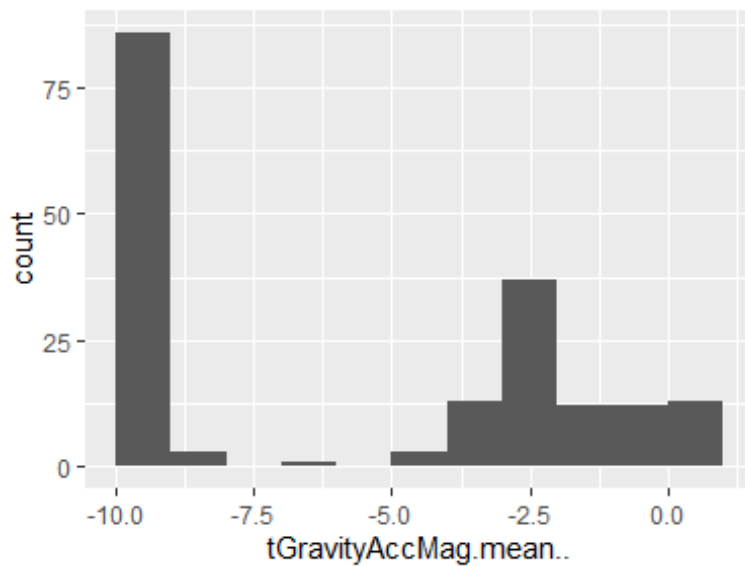
tBodyAccMag.std..

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	180
Median	-6.18
1st and 3rd quartiles	-9.44; -2.73
Min. and max.	-9.86; 0.43



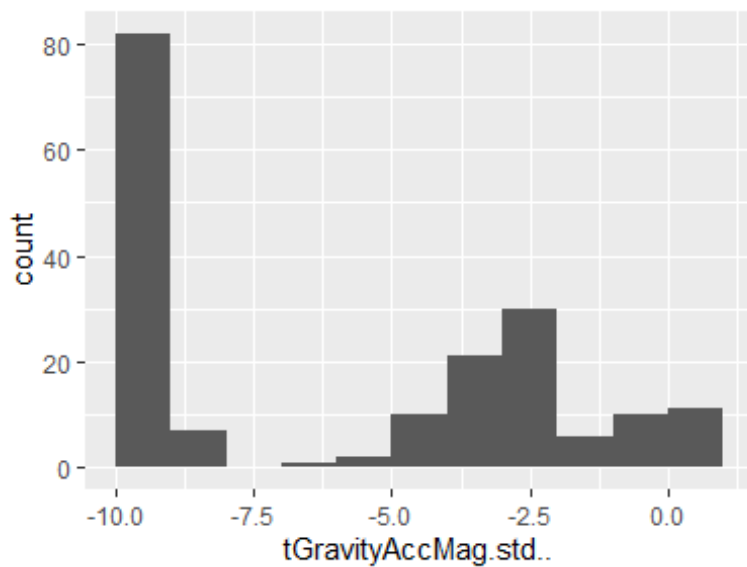
tGravityAccMag.mean..

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	180
Median	-5.1
1st and 3rd quartiles	-9.57; -2.29
Min. and max.	-9.86; 0.64



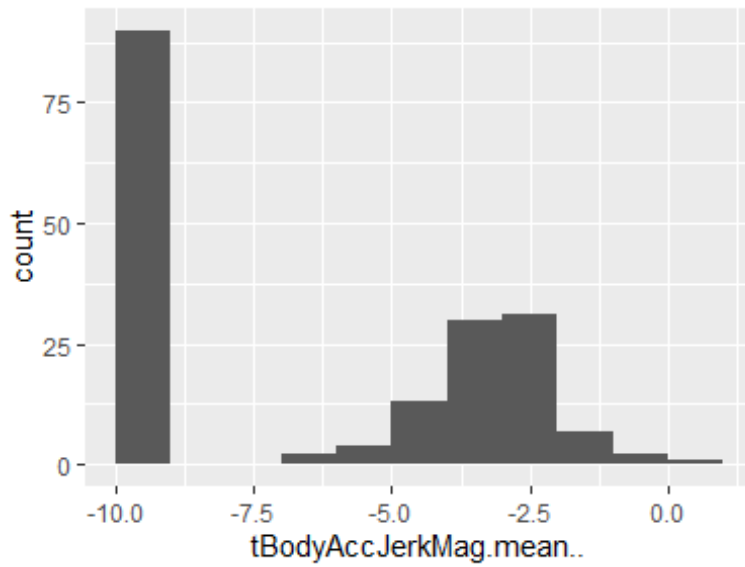
tGravityAccMag.std..

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	180
Median	-6.18
1st and 3rd quartiles	-9.44; -2.73
Min. and max.	-9.86; 0.43



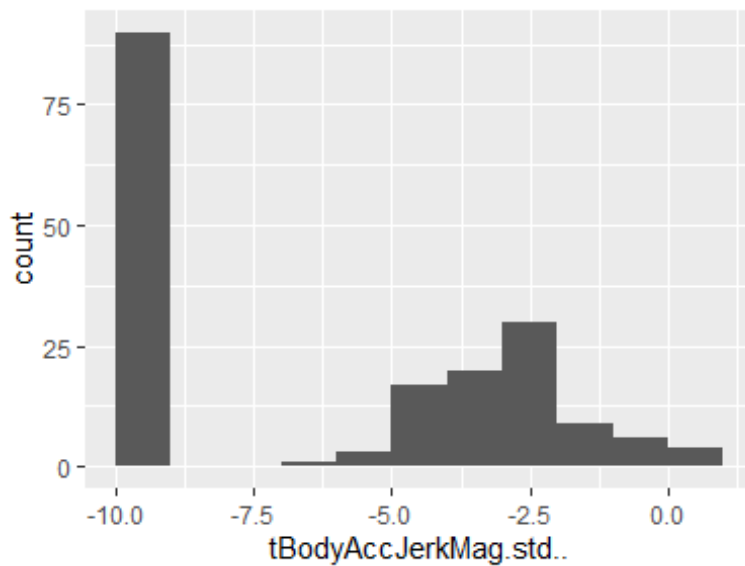
tBodyAccJerkMag.mean..

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	180
Median	-8.17
1st and 3rd quartiles	-9.8; -3.09
Min. and max.	-9.93; 0.39



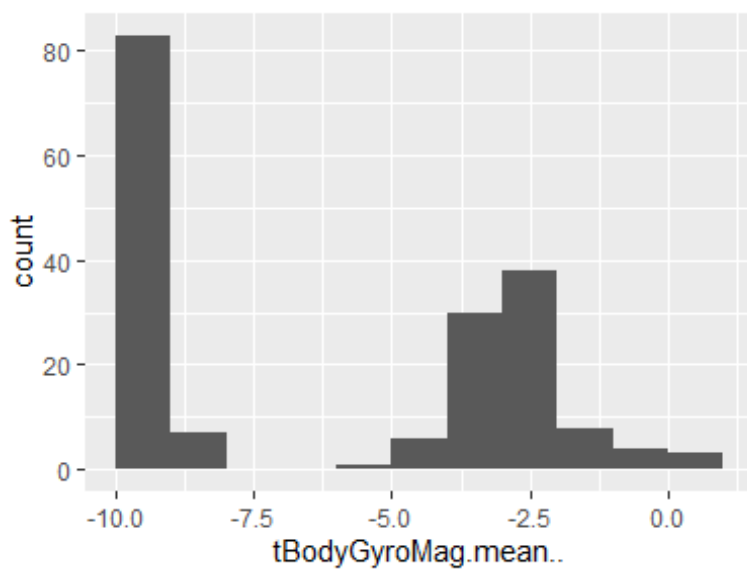
tBodyAccJerkMag.std..

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	180
Median	-8.01
1st and 3rd quartiles	-9.76; -2.87
Min. and max.	-9.95; 0.34



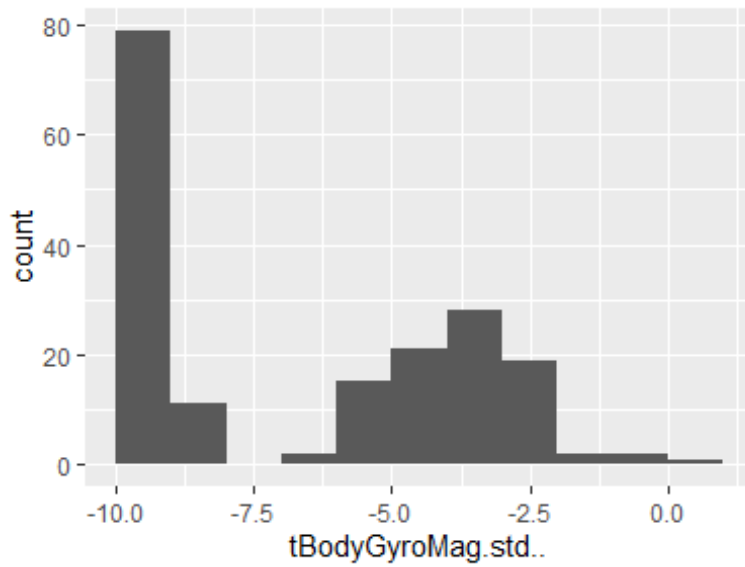
tBodyGyroMag.mean..

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	180
Median	-6.55
1st and 3rd quartiles	-9.45; -2.9
Min. and max.	-9.81; 0.37



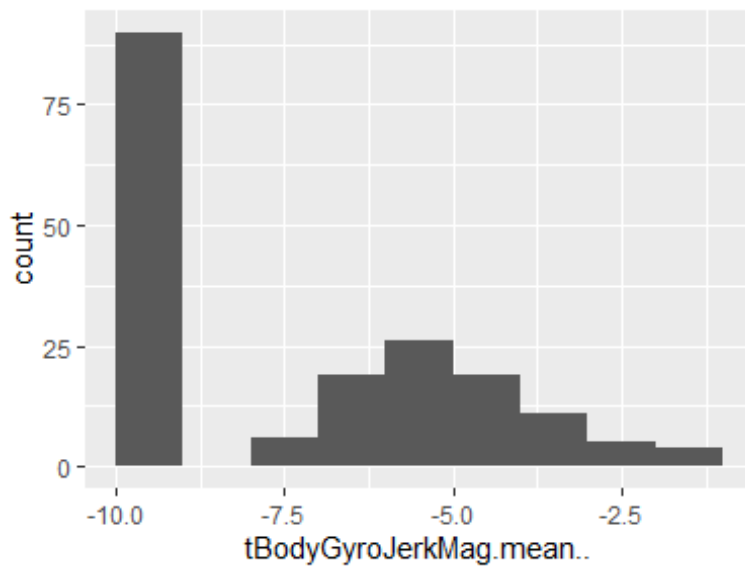
tBodyGyroMag.std..

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	180
Median	-7.47
1st and 3rd quartiles	-9.48; -3.76
Min. and max.	-9.81; 0.28



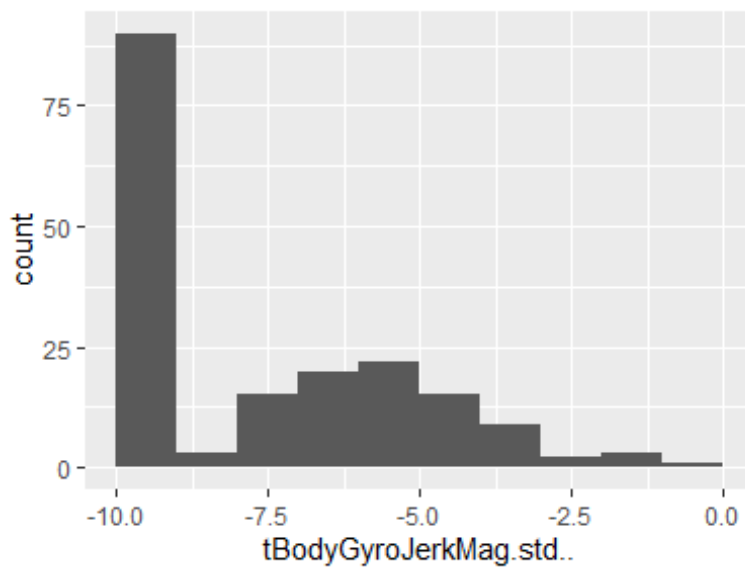
tBodyGyroJerkMag.mean..

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	180
Median	-8.65
1st and 3rd quartiles	-9.85; -5.12
Min. and max.	-9.97; -1.06



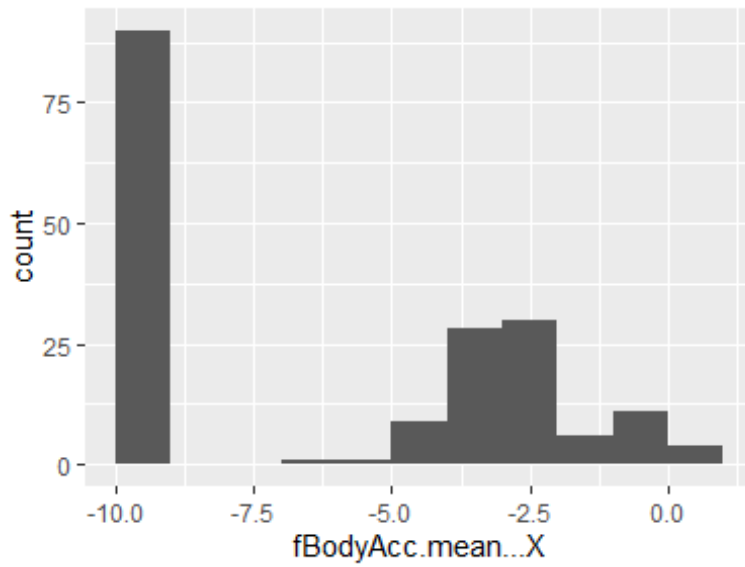
tBodyGyroJerkMag.std..

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	180
Median	-8.81
1st and 3rd quartiles	-9.8; -5.77
Min. and max.	-9.98; -0.12



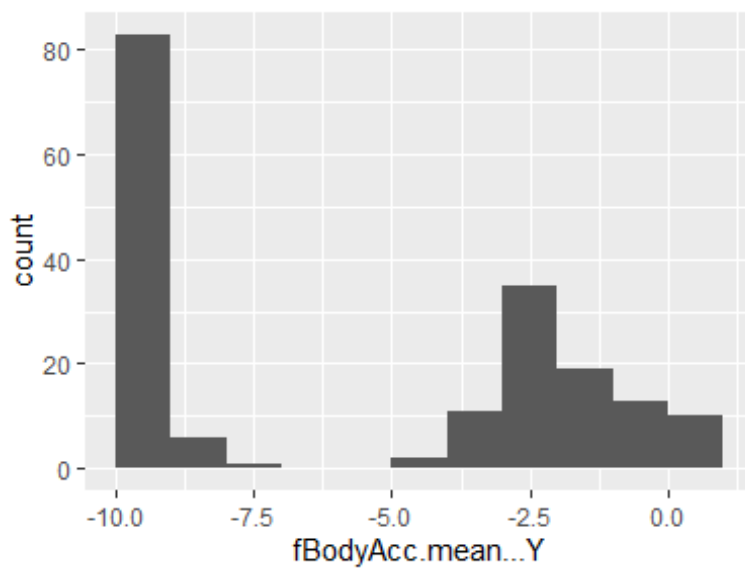
fBodyAcc.mean...X

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	180
Median	-7.69
1st and 3rd quartiles	-9.79; -2.95
Min. and max.	-9.95; 0.54



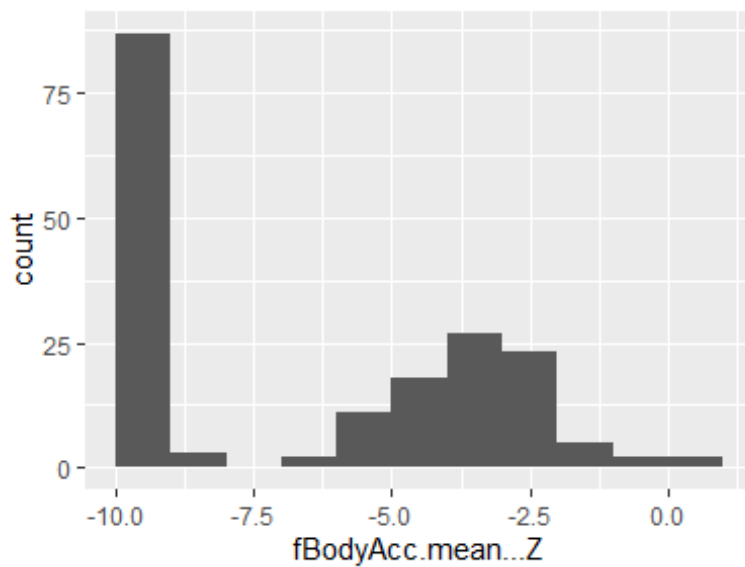
fBodyAcc.mean...Y

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	180
Median	-6.01
1st and 3rd quartiles	-9.54; -2.15
Min. and max.	-9.89; 0.52



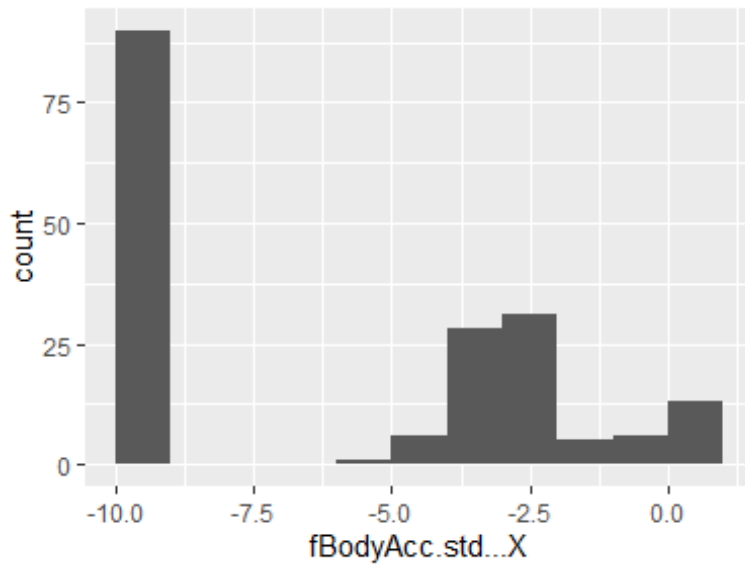
fBodyAcc.mean...Z

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	180
Median	-7.24
1st and 3rd quartiles	-9.63; -3.39
Min. and max.	-9.89; 0.26



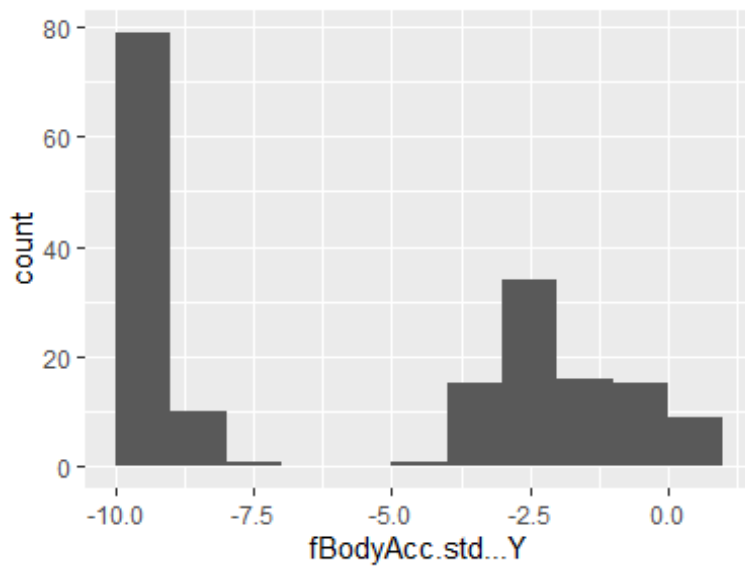
fBodyAcc.std...X

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	180
Median	-7.47
1st and 3rd quartiles	-9.82; -2.69
Min. and max.	-9.97; 0.66



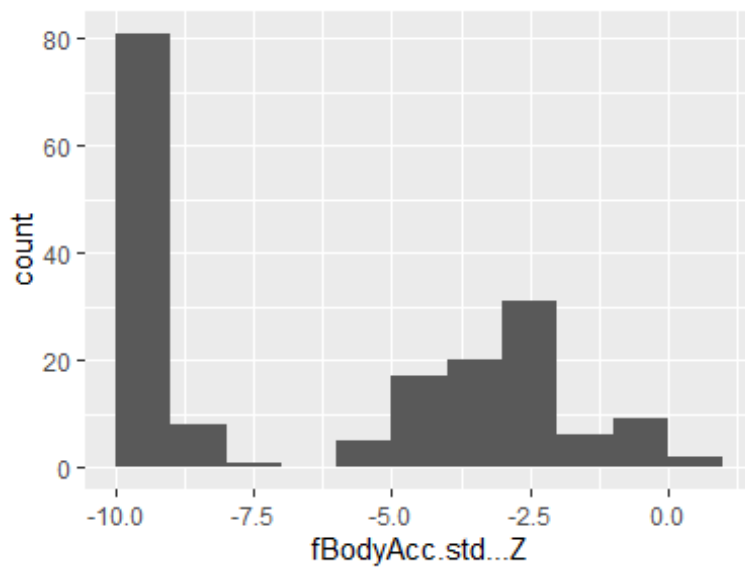
fBodyAcc.std...Y

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	180
Median	-5.76
1st and 3rd quartiles	-9.4; -2.26
Min. and max.	-9.91; 0.56



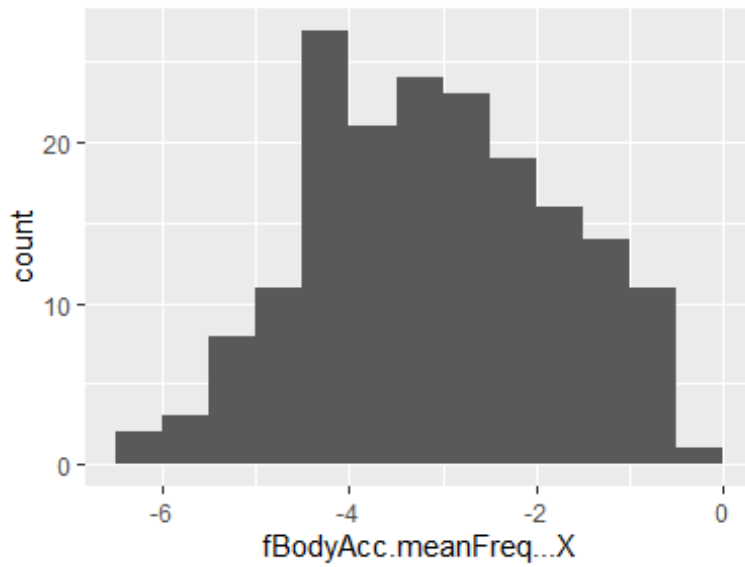
fBodyAcc.std...Z

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	180
Median	-6.49
1st and 3rd quartiles	-9.46; -2.93
Min. and max.	-9.87; 0.69



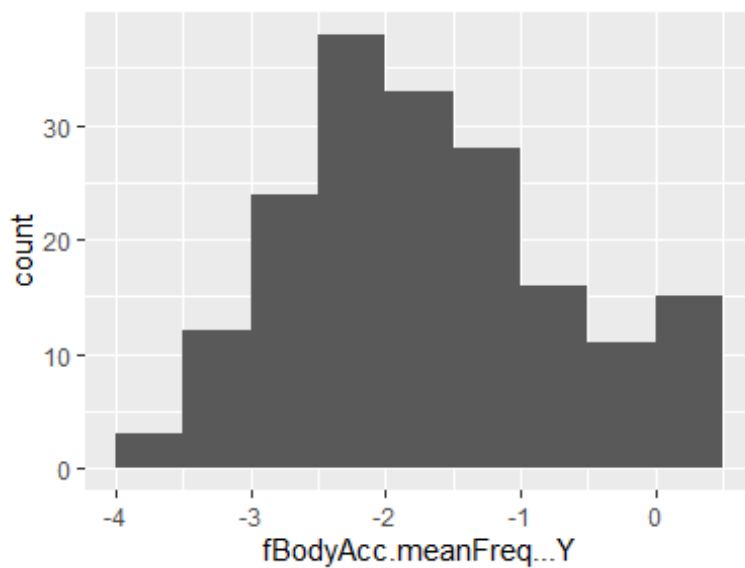
fBodyAcc.meanFreq...X

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	180
Median	-3.14
1st and 3rd quartiles	-4.08; -2.16
Min. and max.	-6.36; -0.37



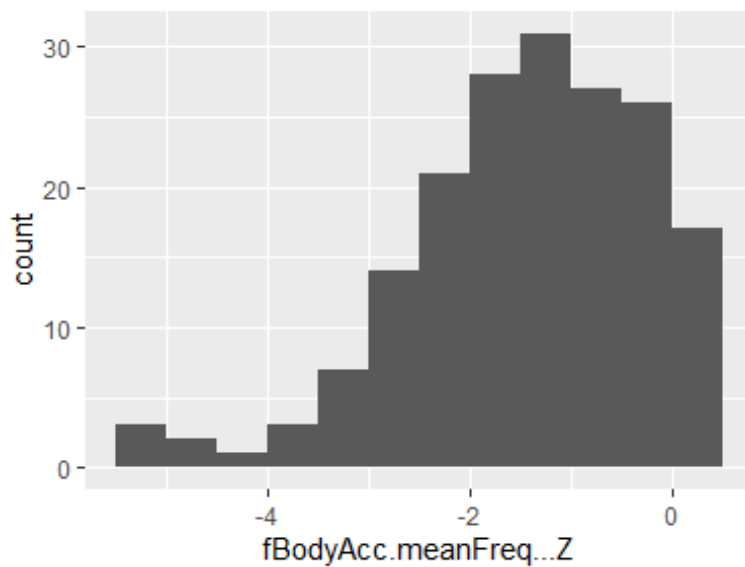
fBodyAcc.meanFreq...Y

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	180
Median	-1.83
1st and 3rd quartiles	-2.37; -1.11
Min. and max.	-3.99; 0.32



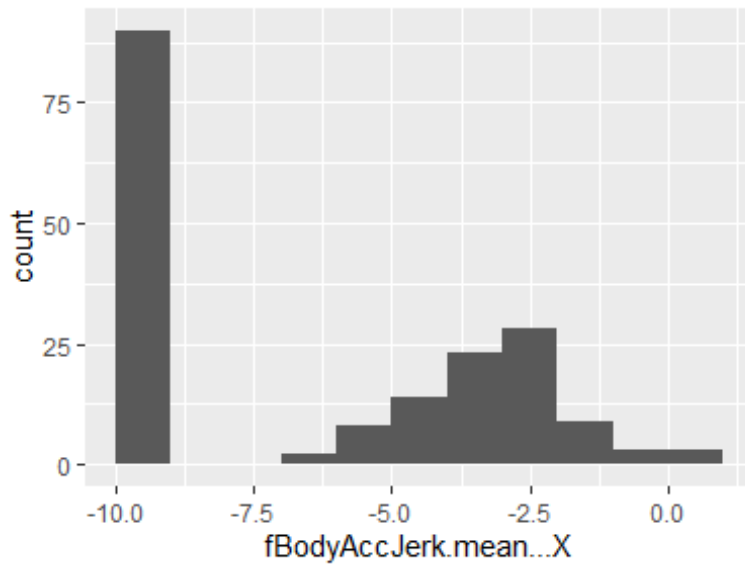
fBodyAcc.meanFreq...Z

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	180
Median	-1.24
1st and 3rd quartiles	-2.13; -0.55
Min. and max.	-5.36; 0.36



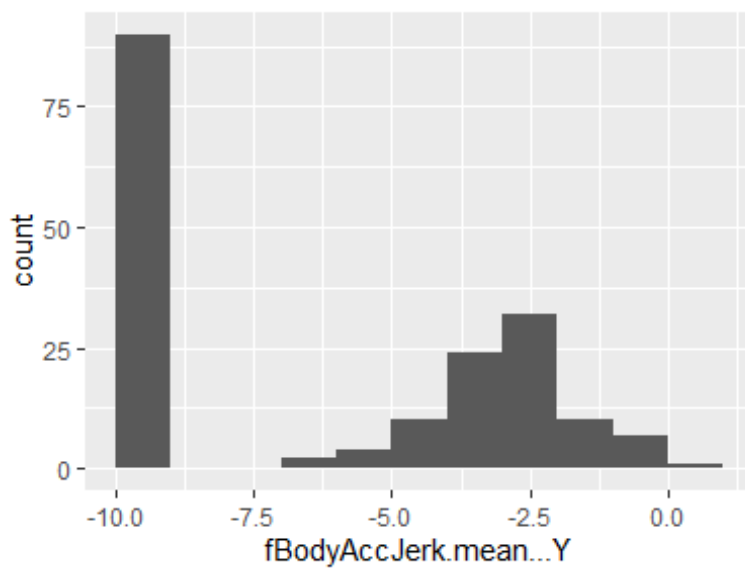
fBodyAccJerk.mean...X

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	180
Median	-8.13
1st and 3rd quartiles	-9.82; -3.09
Min. and max.	-9.95; 0.42



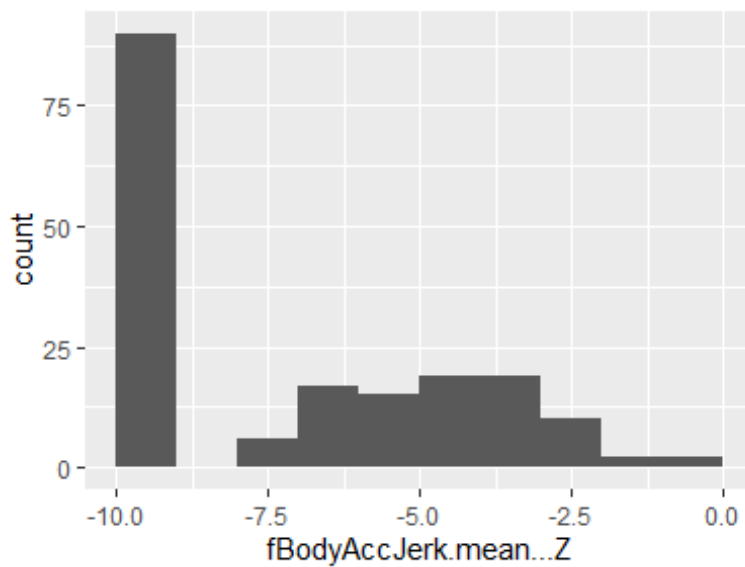
fBodyAccJerk.mean...Y

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	180
Median	-7.82
1st and 3rd quartiles	-9.72; -2.96
Min. and max.	-9.89; 0.11



fBodyAccJerk.mean...Z

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	180
Median	-8.71
1st and 3rd quartiles	-9.8; -4.7
Min. and max.	-9.92; -0.71



fBodyAccJerk.std...X

Feature	Result
Variable type	numeric
Number of missing obs.	0 (0 %)
Number of unique values	180
Median	-8.25
1st and 3rd quartiles	-9.84; -3.04
Min. and max.	-9.95; 0.48

