Codebook for tidy\_data

Autogenerated data summary from dataMaid

# Data report overview

The dataset examined has the following dimensions:

|  |  |
| --- | --- |
| Feature | Result |
| Number of observations | 180 |
| Number of variables | 88 |

# Data dictionary

Subject

Person who performed the activity. The range is from 1 to 30.

Activity

Activities performed by each person (subject).

01 .WALKING

02 .WALKING\_UPSTAIRS

03 .WALKING\_DOWNSTAIRS

04 .SITTING

05 .STANDING

06 . LAYING

Feature

The features selected for this database come from the accelerometer and gyroscope 3-axial raw signals tAcc-XYZ and tGyro-XYZ. The original data has 561 features but in this tidy\_data, only mean and standard deviation features are selected. 86 features are included subsequently.

An average of these features by subject and activity are included in this tidy data.

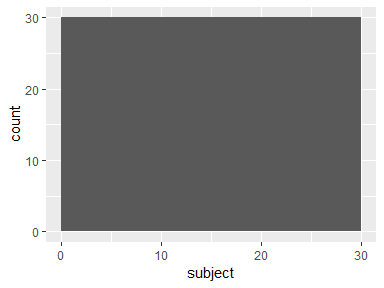
# Codebook summary table

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Label | Variable | Class | # unique values | Missing | Description |
|  | [**subject**](#subject) | integer | 30 | 0.00 % |  |
|  | [**activity**](#activity) | factor | 6 | 0.00 % |  |
|  | [**tBodyAcc-mean()-X**](#tbodyacc-mean-x) | numeric | 180 | 0.00 % |  |
|  | [**tBodyAcc-mean()-Y**](#tbodyacc-mean-y) | numeric | 180 | 0.00 % |  |
|  | [**tBodyAcc-mean()-Z**](#tbodyacc-mean-z) | numeric | 180 | 0.00 % |  |
|  | [**tBodyAcc-std()-X**](#tbodyacc-std-x) | numeric | 180 | 0.00 % |  |
|  | [**tBodyAcc-std()-Y**](#tbodyacc-std-y) | numeric | 180 | 0.00 % |  |
|  | [**tBodyAcc-std()-Z**](#tbodyacc-std-z) | numeric | 180 | 0.00 % |  |
|  | [**tGravityAcc-mean()-X**](#tgravityacc-mean-x) | numeric | 180 | 0.00 % |  |
|  | [**tGravityAcc-mean()-Y**](#tgravityacc-mean-y) | numeric | 180 | 0.00 % |  |
|  | [**tGravityAcc-mean()-Z**](#tgravityacc-mean-z) | numeric | 180 | 0.00 % |  |
|  | [**tGravityAcc-std()-X**](#tgravityacc-std-x) | numeric | 180 | 0.00 % |  |
|  | [**tGravityAcc-std()-Y**](#tgravityacc-std-y) | numeric | 180 | 0.00 % |  |
|  | [**tGravityAcc-std()-Z**](#tgravityacc-std-z) | numeric | 180 | 0.00 % |  |
|  | [**tBodyAccJerk-mean()-X**](#tbodyaccjerk-mean-x) | numeric | 180 | 0.00 % |  |
|  | [**tBodyAccJerk-mean()-Y**](#tbodyaccjerk-mean-y) | numeric | 180 | 0.00 % |  |
|  | [**tBodyAccJerk-mean()-Z**](#tbodyaccjerk-mean-z) | numeric | 180 | 0.00 % |  |
|  | [**tBodyAccJerk-std()-X**](#tbodyaccjerk-std-x) | numeric | 180 | 0.00 % |  |
|  | [**tBodyAccJerk-std()-Y**](#tbodyaccjerk-std-y) | numeric | 180 | 0.00 % |  |
|  | [**tBodyAccJerk-std()-Z**](#tbodyaccjerk-std-z) | numeric | 180 | 0.00 % |  |
|  | [**tBodyGyro-mean()-X**](#tbodygyro-mean-x) | numeric | 180 | 0.00 % |  |
|  | [**tBodyGyro-mean()-Y**](#tbodygyro-mean-y) | numeric | 180 | 0.00 % |  |
|  | [**tBodyGyro-mean()-Z**](#tbodygyro-mean-z) | numeric | 180 | 0.00 % |  |
|  | [**tBodyGyro-std()-X**](#tbodygyro-std-x) | numeric | 180 | 0.00 % |  |
|  | [**tBodyGyro-std()-Y**](#tbodygyro-std-y) | numeric | 180 | 0.00 % |  |
|  | [**tBodyGyro-std()-Z**](#tbodygyro-std-z) | numeric | 180 | 0.00 % |  |
|  | [**tBodyGyroJerk-mean()-X**](#tbodygyrojerk-mean-x) | numeric | 180 | 0.00 % |  |
|  | [**tBodyGyroJerk-mean()-Y**](#tbodygyrojerk-mean-y) | numeric | 180 | 0.00 % |  |
|  | [**tBodyGyroJerk-mean()-Z**](#tbodygyrojerk-mean-z) | numeric | 180 | 0.00 % |  |
|  | [**tBodyGyroJerk-std()-X**](#tbodygyrojerk-std-x) | numeric | 180 | 0.00 % |  |
|  | [**tBodyGyroJerk-std()-Y**](#tbodygyrojerk-std-y) | numeric | 180 | 0.00 % |  |
|  | [**tBodyGyroJerk-std()-Z**](#tbodygyrojerk-std-z) | numeric | 180 | 0.00 % |  |
|  | [**tBodyAccMag-mean()**](#tbodyaccmag-mean) | numeric | 180 | 0.00 % |  |
|  | [**tBodyAccMag-std()**](#tbodyaccmag-std) | numeric | 180 | 0.00 % |  |
|  | [**tGravityAccMag-mean()**](#tgravityaccmag-mean) | numeric | 180 | 0.00 % |  |
|  | [**tGravityAccMag-std()**](#tgravityaccmag-std) | numeric | 180 | 0.00 % |  |
|  | [**tBodyAccJerkMag-mean()**](#tbodyaccjerkmag-mean) | numeric | 180 | 0.00 % |  |
|  | [**tBodyAccJerkMag-std()**](#tbodyaccjerkmag-std) | numeric | 180 | 0.00 % |  |
|  | [**tBodyGyroMag-mean()**](#tbodygyromag-mean) | numeric | 180 | 0.00 % |  |
|  | [**tBodyGyroMag-std()**](#tbodygyromag-std) | numeric | 180 | 0.00 % |  |
|  | [**tBodyGyroJerkMag-mean()**](#tbodygyrojerkmag-mean) | numeric | 180 | 0.00 % |  |
|  | [**tBodyGyroJerkMag-std()**](#tbodygyrojerkmag-std) | numeric | 180 | 0.00 % |  |
|  | [**fBodyAcc-mean()-X**](#fbodyacc-mean-x) | numeric | 180 | 0.00 % |  |
|  | [**fBodyAcc-mean()-Y**](#fbodyacc-mean-y) | numeric | 180 | 0.00 % |  |
|  | [**fBodyAcc-mean()-Z**](#fbodyacc-mean-z) | numeric | 180 | 0.00 % |  |
|  | [**fBodyAcc-std()-X**](#fbodyacc-std-x) | numeric | 180 | 0.00 % |  |
|  | [**fBodyAcc-std()-Y**](#fbodyacc-std-y) | numeric | 180 | 0.00 % |  |
|  | [**fBodyAcc-std()-Z**](#fbodyacc-std-z) | numeric | 180 | 0.00 % |  |
|  | [**fBodyAcc-meanFreq()-X**](#fbodyacc-meanfreq-x) | numeric | 180 | 0.00 % |  |
|  | [**fBodyAcc-meanFreq()-Y**](#fbodyacc-meanfreq-y) | numeric | 180 | 0.00 % |  |
|  | [**fBodyAcc-meanFreq()-Z**](#fbodyacc-meanfreq-z) | numeric | 180 | 0.00 % |  |
|  | [**fBodyAccJerk-mean()-X**](#fbodyaccjerk-mean-x) | numeric | 180 | 0.00 % |  |
|  | [**fBodyAccJerk-mean()-Y**](#fbodyaccjerk-mean-y) | numeric | 180 | 0.00 % |  |
|  | [**fBodyAccJerk-mean()-Z**](#fbodyaccjerk-mean-z) | numeric | 180 | 0.00 % |  |
|  | [**fBodyAccJerk-std()-X**](#fbodyaccjerk-std-x) | numeric | 180 | 0.00 % |  |
|  | [**fBodyAccJerk-std()-Y**](#fbodyaccjerk-std-y) | numeric | 180 | 0.00 % |  |
|  | [**fBodyAccJerk-std()-Z**](#fbodyaccjerk-std-z) | numeric | 180 | 0.00 % |  |
|  | [**fBodyAccJerk-meanFreq()-X**](#fbodyaccjerk-meanfreq-x) | numeric | 180 | 0.00 % |  |
|  | [**fBodyAccJerk-meanFreq()-Y**](#fbodyaccjerk-meanfreq-y) | numeric | 180 | 0.00 % |  |
|  | [**fBodyAccJerk-meanFreq()-Z**](#fbodyaccjerk-meanfreq-z) | numeric | 180 | 0.00 % |  |
|  | [**fBodyGyro-mean()-X**](#fbodygyro-mean-x) | numeric | 180 | 0.00 % |  |
|  | [**fBodyGyro-mean()-Y**](#fbodygyro-mean-y) | numeric | 180 | 0.00 % |  |
|  | [**fBodyGyro-mean()-Z**](#fbodygyro-mean-z) | numeric | 180 | 0.00 % |  |
|  | [**fBodyGyro-std()-X**](#fbodygyro-std-x) | numeric | 180 | 0.00 % |  |
|  | [**fBodyGyro-std()-Y**](#fbodygyro-std-y) | numeric | 180 | 0.00 % |  |
|  | [**fBodyGyro-std()-Z**](#fbodygyro-std-z) | numeric | 180 | 0.00 % |  |
|  | [**fBodyGyro-meanFreq()-X**](#fbodygyro-meanfreq-x) | numeric | 180 | 0.00 % |  |
|  | [**fBodyGyro-meanFreq()-Y**](#fbodygyro-meanfreq-y) | numeric | 180 | 0.00 % |  |
|  | [**fBodyGyro-meanFreq()-Z**](#fbodygyro-meanfreq-z) | numeric | 180 | 0.00 % |  |
|  | [**fBodyAccMag-mean()**](#fbodyaccmag-mean) | numeric | 180 | 0.00 % |  |
|  | [**fBodyAccMag-std()**](#fbodyaccmag-std) | numeric | 180 | 0.00 % |  |
|  | [**fBodyAccMag-meanFreq()**](#fbodyaccmag-meanfreq) | numeric | 180 | 0.00 % |  |
|  | [**fBodyBodyAccJerkMag-mean()**](#fbodybodyaccjerkmag-mean) | numeric | 180 | 0.00 % |  |
|  | [**fBodyBodyAccJerkMag-std()**](#fbodybodyaccjerkmag-std) | numeric | 180 | 0.00 % |  |
|  | [**fBodyBodyAccJerkMag-meanFreq()**](#fbodybodyaccjerkmag-meanfreq) | numeric | 180 | 0.00 % |  |
|  | [**fBodyBodyGyroMag-mean()**](#fbodybodygyromag-mean) | numeric | 180 | 0.00 % |  |
|  | [**fBodyBodyGyroMag-std()**](#fbodybodygyromag-std) | numeric | 180 | 0.00 % |  |
|  | [**fBodyBodyGyroMag-meanFreq()**](#fbodybodygyromag-meanfreq) | numeric | 180 | 0.00 % |  |
|  | [**fBodyBodyGyroJerkMag-mean()**](#fbodybodygyrojerkmag-mean) | numeric | 180 | 0.00 % |  |
|  | [**fBodyBodyGyroJerkMag-std()**](#fbodybodygyrojerkmag-std) | numeric | 180 | 0.00 % |  |
|  | [**fBodyBodyGyroJerkMag-meanFreq()**](#fbodybodygyrojerkmag-meanfreq) | numeric | 180 | 0.00 % |  |
|  | [**angle(tBodyAccMean,gravity)**](#angletbodyaccmeangravity) | numeric | 180 | 0.00 % |  |
|  | [**angle(tBodyAccJerkMean),gravityMean)**](#angletbodyaccjerkmeangravitymean) | numeric | 180 | 0.00 % |  |
|  | [**angle(tBodyGyroMean,gravityMean)**](#angletbodygyromeangravitymean) | numeric | 180 | 0.00 % |  |
|  | [**angle(tBodyGyroJerkMean,gravityMean)**](#angletbodygyrojerkmeangravitymean) | numeric | 180 | 0.00 % |  |
|  | [**angle(X,gravityMean)**](#anglexgravitymean) | numeric | 180 | 0.00 % |  |
|  | [**angle(Y,gravityMean)**](#angleygravitymean) | numeric | 180 | 0.00 % |  |
|  | [**angle(Z,gravityMean)**](#anglezgravitymean) | numeric | 180 | 0.00 % |  |

# Variable list

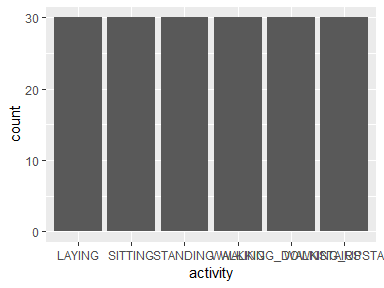
## subject

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | integer |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 30 |
| Median | 15.5 |
| 1st and 3rd quartiles | 8; 23 |
| Min. and max. | 1; 30 |



## activity

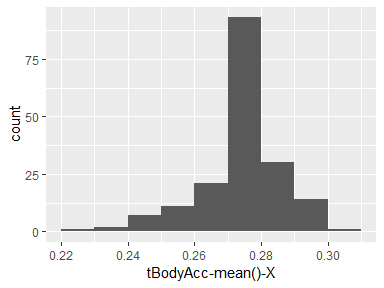
|  |  |
| --- | --- |
| Feature | Result |
| Variable type | factor |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 6 |
| Mode | “LAYING” |
| Reference category | LAYING |



* Observed factor levels: "LAYING", "SITTING", "STANDING", "WALKING", "WALKING\_DOWNSTAIRS", "WALKING\_UPSTAIRS".

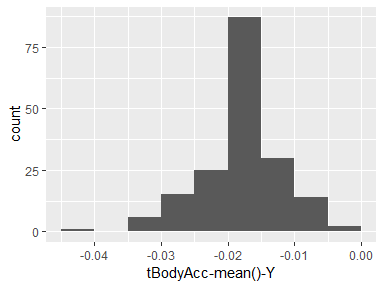
## tBodyAcc-mean()-X

|  |  |
| --- | --- |
| 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. | 0.22; 0.3 |



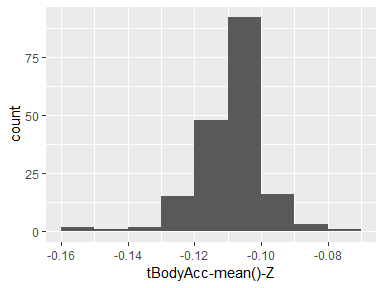
## tBodyAcc-mean()-Y

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.02 |
| 1st and 3rd quartiles | -0.02; -0.01 |
| Min. and max. | -0.04; 0 |



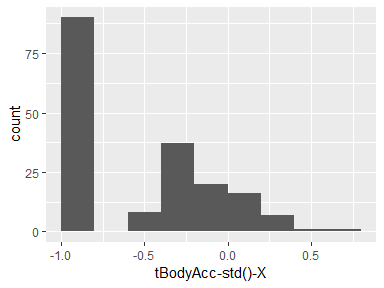
## tBodyAcc-mean()-Z

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.11 |
| 1st and 3rd quartiles | -0.11; -0.1 |
| Min. and max. | -0.15; -0.08 |



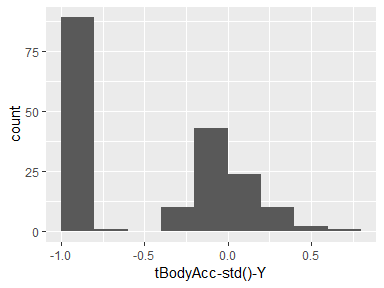
## tBodyAcc-std()-X

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.75 |
| 1st and 3rd quartiles | -0.98; -0.2 |
| Min. and max. | -1; 0.63 |



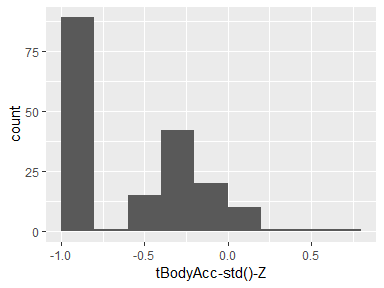
## tBodyAcc-std()-Y

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.51 |
| 1st and 3rd quartiles | -0.94; -0.03 |
| Min. and max. | -0.99; 0.62 |



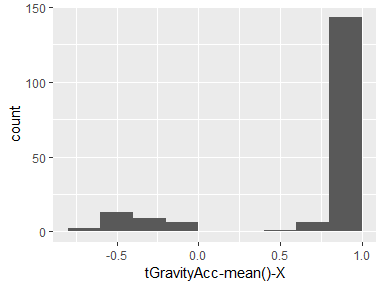
## tBodyAcc-std()-Z

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.65 |
| 1st and 3rd quartiles | -0.95; -0.23 |
| Min. and max. | -0.99; 0.61 |



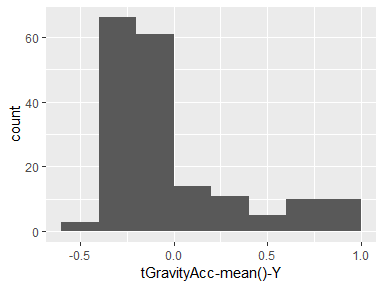
## tGravityAcc-mean()-X

|  |  |
| --- | --- |
| 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. | -0.68; 0.97 |



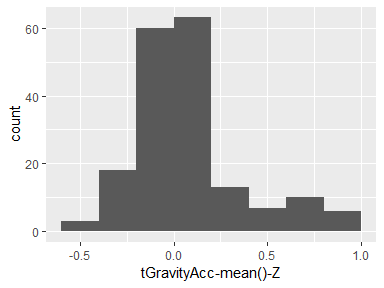
## tGravityAcc-mean()-Y

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.13 |
| 1st and 3rd quartiles | -0.23; 0.09 |
| Min. and max. | -0.48; 0.96 |



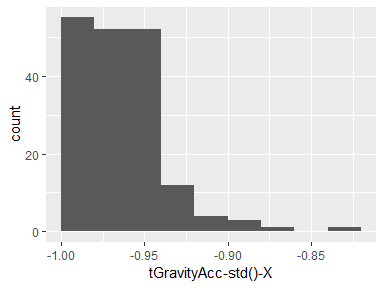
## tGravityAcc-mean()-Z

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | 0.02 |
| 1st and 3rd quartiles | -0.12; 0.15 |
| Min. and max. | -0.5; 0.96 |



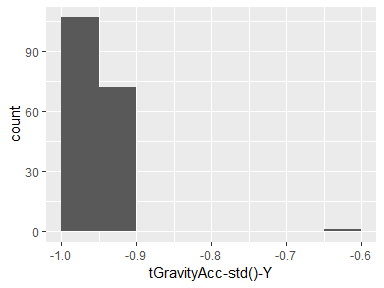
## tGravityAcc-std()-X

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.97 |
| 1st and 3rd quartiles | -0.98; -0.95 |
| Min. and max. | -1; -0.83 |



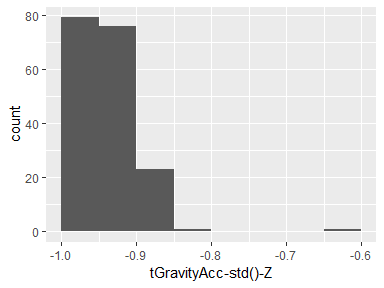
## tGravityAcc-std()-Y

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.96 |
| 1st and 3rd quartiles | -0.97; -0.94 |
| Min. and max. | -0.99; -0.64 |



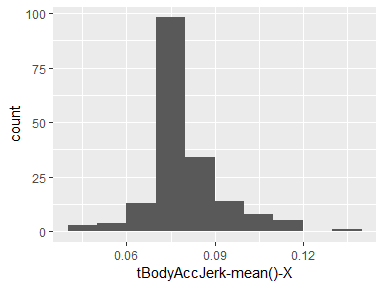
## tGravityAcc-std()-Z

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.95 |
| 1st and 3rd quartiles | -0.96; -0.92 |
| Min. and max. | -0.99; -0.61 |



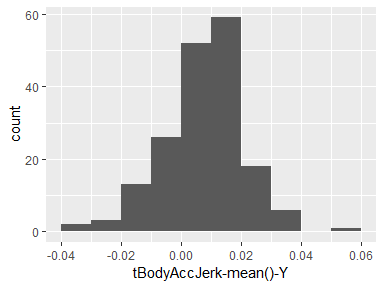
## tBodyAccJerk-mean()-X

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | 0.08 |
| 1st and 3rd quartiles | 0.07; 0.08 |
| Min. and max. | 0.04; 0.13 |



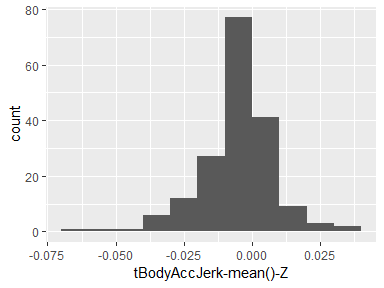
## tBodyAccJerk-mean()-Y

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | 0.01 |
| 1st and 3rd quartiles | 0; 0.01 |
| Min. and max. | -0.04; 0.06 |



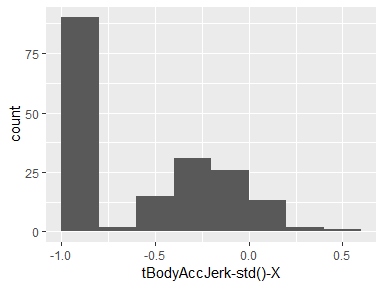
## tBodyAccJerk-mean()-Z

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | 0 |
| 1st and 3rd quartiles | -0.01; 0 |
| Min. and max. | -0.07; 0.04 |



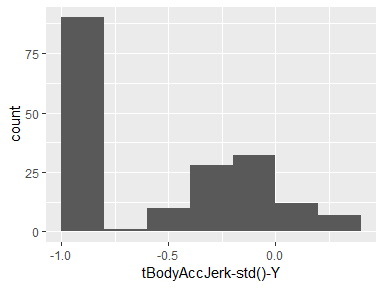
## tBodyAccJerk-std()-X

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.81 |
| 1st and 3rd quartiles | -0.98; -0.22 |
| Min. and max. | -0.99; 0.54 |



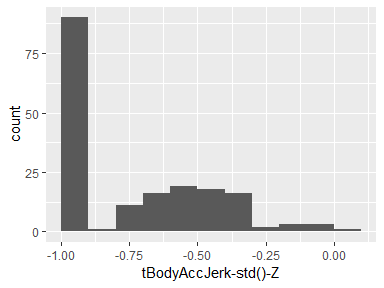
## tBodyAccJerk-std()-Y

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.78 |
| 1st and 3rd quartiles | -0.97; -0.15 |
| Min. and max. | -0.99; 0.36 |



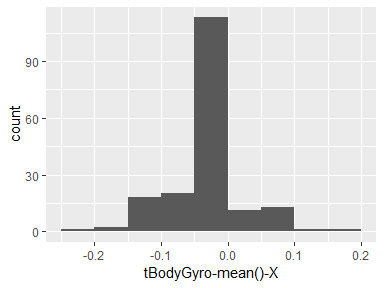
## tBodyAccJerk-std()-Z

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.88 |
| 1st and 3rd quartiles | -0.98; -0.51 |
| Min. and max. | -0.99; 0.03 |



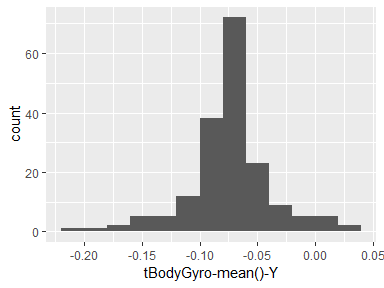
## tBodyGyro-mean()-X

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.03 |
| 1st and 3rd quartiles | -0.05; -0.02 |
| Min. and max. | -0.21; 0.19 |



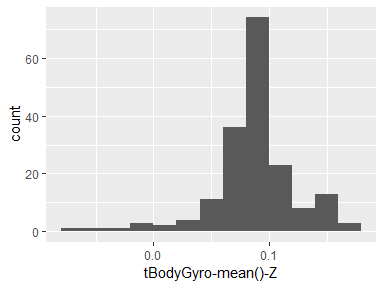
## tBodyGyro-mean()-Y

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.07 |
| 1st and 3rd quartiles | -0.09; -0.06 |
| Min. and max. | -0.2; 0.03 |



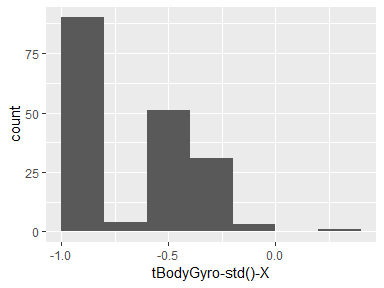
## tBodyGyro-mean()-Z

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | 0.09 |
| 1st and 3rd quartiles | 0.07; 0.1 |
| Min. and max. | -0.07; 0.18 |



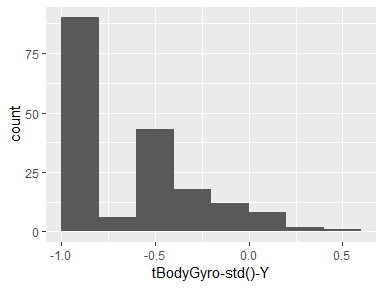
## tBodyGyro-std()-X

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.79 |
| 1st and 3rd quartiles | -0.97; -0.44 |
| Min. and max. | -0.99; 0.27 |



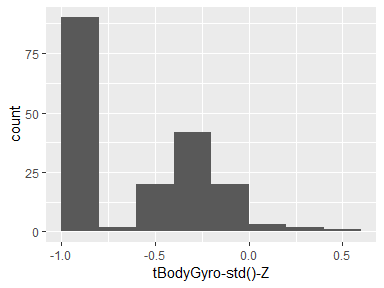
## tBodyGyro-std()-Y

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.8 |
| 1st and 3rd quartiles | -0.96; -0.42 |
| Min. and max. | -0.99; 0.48 |



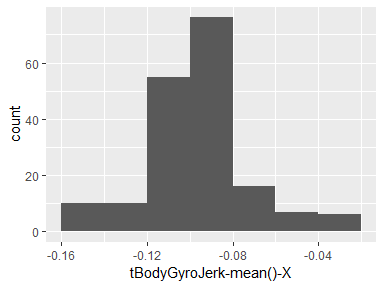
## tBodyGyro-std()-Z

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.8 |
| 1st and 3rd quartiles | -0.96; -0.31 |
| Min. and max. | -0.99; 0.56 |



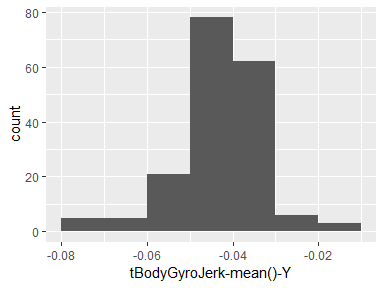
## tBodyGyroJerk-mean()-X

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.1 |
| 1st and 3rd quartiles | -0.1; -0.09 |
| Min. and max. | -0.16; -0.02 |



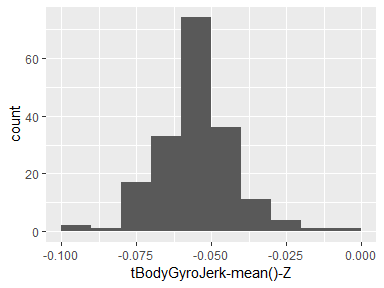
## tBodyGyroJerk-mean()-Y

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.04 |
| 1st and 3rd quartiles | -0.05; -0.04 |
| Min. and max. | -0.08; -0.01 |



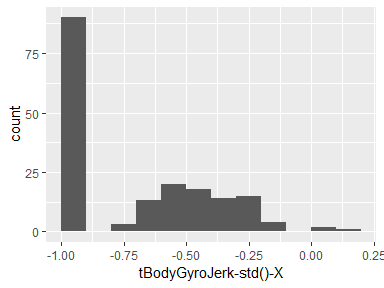
## tBodyGyroJerk-mean()-Z

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.05 |
| 1st and 3rd quartiles | -0.06; -0.05 |
| Min. and max. | -0.09; -0.01 |



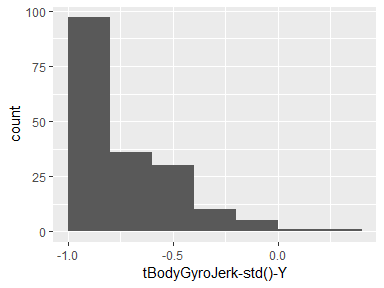
## tBodyGyroJerk-std()-X

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.84 |
| 1st and 3rd quartiles | -0.98; -0.46 |
| Min. and max. | -1; 0.18 |



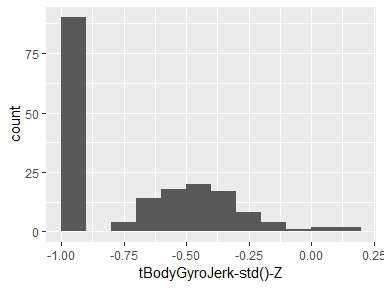
## tBodyGyroJerk-std()-Y

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.89 |
| 1st and 3rd quartiles | -0.98; -0.59 |
| Min. and max. | -1; 0.3 |



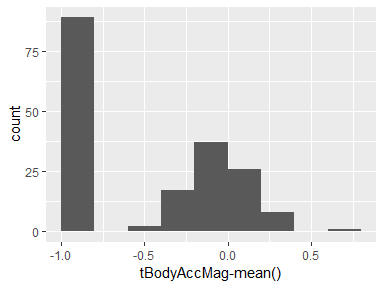
## tBodyGyroJerk-std()-Z

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.86 |
| 1st and 3rd quartiles | -0.98; -0.47 |
| Min. and max. | -1; 0.19 |



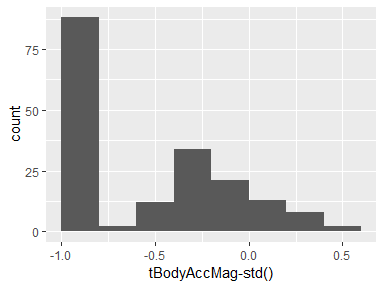
## tBodyAccMag-mean()

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.48 |
| 1st and 3rd quartiles | -0.96; -0.09 |
| Min. and max. | -0.99; 0.64 |



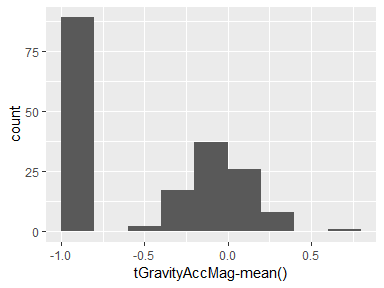
## tBodyAccMag-std()

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.61 |
| 1st and 3rd quartiles | -0.94; -0.21 |
| Min. and max. | -0.99; 0.43 |



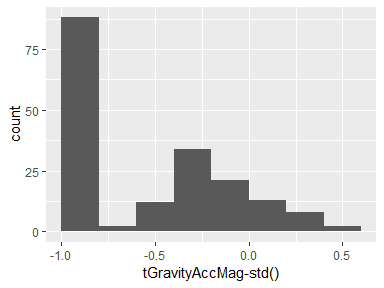
## tGravityAccMag-mean()

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.48 |
| 1st and 3rd quartiles | -0.96; -0.09 |
| Min. and max. | -0.99; 0.64 |



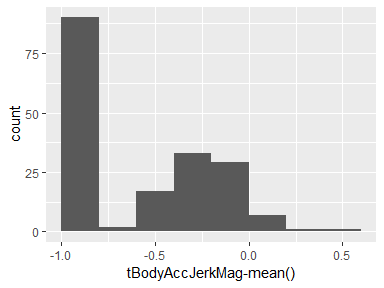
## tGravityAccMag-std()

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.61 |
| 1st and 3rd quartiles | -0.94; -0.21 |
| Min. and max. | -0.99; 0.43 |



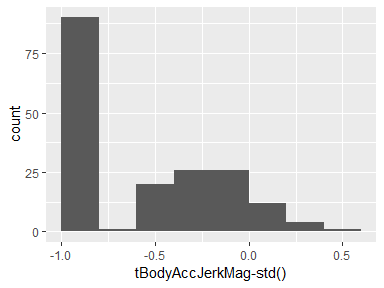
## tBodyAccJerkMag-mean()

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.82 |
| 1st and 3rd quartiles | -0.98; -0.25 |
| Min. and max. | -0.99; 0.43 |



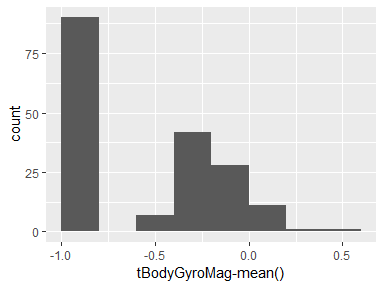
## tBodyAccJerkMag-std()

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.8 |
| 1st and 3rd quartiles | -0.98; -0.22 |
| Min. and max. | -0.99; 0.45 |



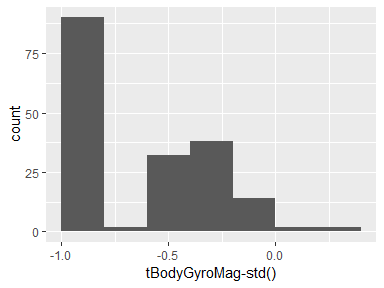
## tBodyGyroMag-mean()

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.66 |
| 1st and 3rd quartiles | -0.95; -0.22 |
| Min. and max. | -0.98; 0.42 |



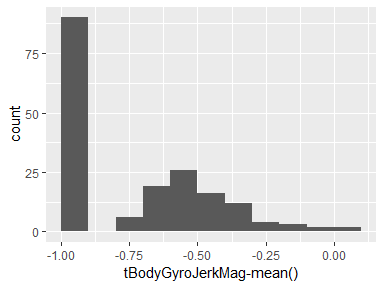
## tBodyGyroMag-std()

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.74 |
| 1st and 3rd quartiles | -0.95; -0.36 |
| Min. and max. | -0.98; 0.3 |



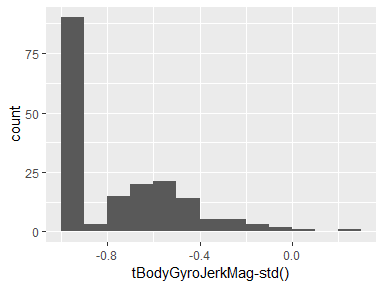
## tBodyGyroJerkMag-mean()

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.86 |
| 1st and 3rd quartiles | -0.99; -0.51 |
| Min. and max. | -1; 0.09 |



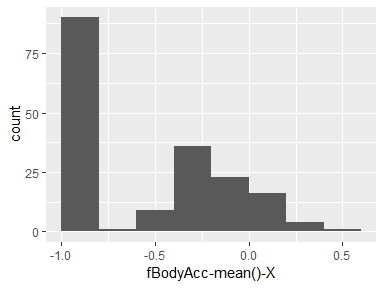
## tBodyGyroJerkMag-std()

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.88 |
| 1st and 3rd quartiles | -0.98; -0.58 |
| Min. and max. | -1; 0.25 |



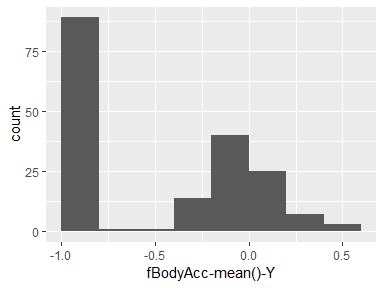
## fBodyAcc-mean()-X

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.77 |
| 1st and 3rd quartiles | -0.98; -0.22 |
| Min. and max. | -1; 0.54 |



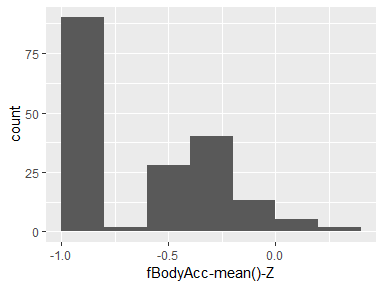
## fBodyAcc-mean()-Y

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.59 |
| 1st and 3rd quartiles | -0.95; -0.06 |
| Min. and max. | -0.99; 0.52 |



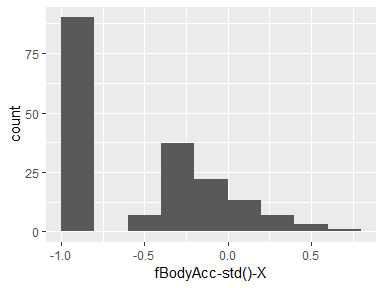
## fBodyAcc-mean()-Z

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.72 |
| 1st and 3rd quartiles | -0.96; -0.32 |
| Min. and max. | -0.99; 0.28 |



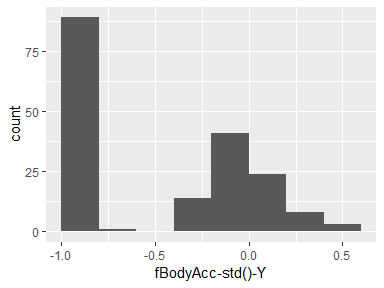
## fBodyAcc-std()-X

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.75 |
| 1st and 3rd quartiles | -0.98; -0.2 |
| Min. and max. | -1; 0.66 |



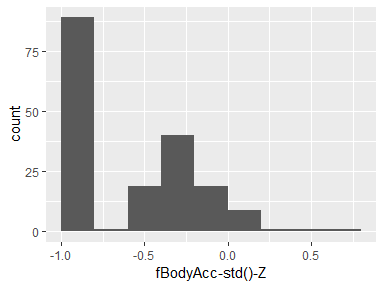
## fBodyAcc-std()-Y

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.51 |
| 1st and 3rd quartiles | -0.94; -0.08 |
| Min. and max. | -0.99; 0.56 |



## fBodyAcc-std()-Z

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.64 |
| 1st and 3rd quartiles | -0.95; -0.27 |
| Min. and max. | -0.99; 0.69 |



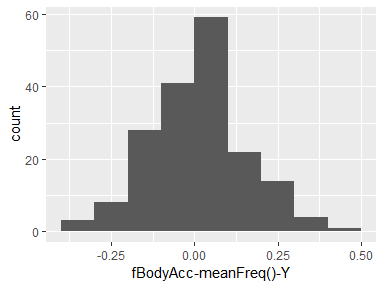
## fBodyAcc-meanFreq()-X

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.26 |
| 1st and 3rd quartiles | -0.39; -0.06 |
| Min. and max. | -0.64; 0.16 |



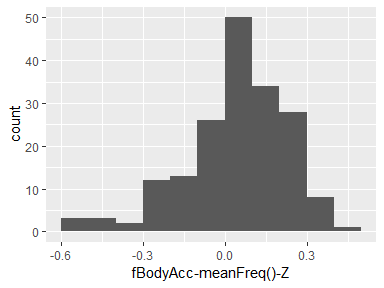
## fBodyAcc-meanFreq()-Y

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | 0.01 |
| 1st and 3rd quartiles | -0.08; 0.09 |
| Min. and max. | -0.38; 0.47 |



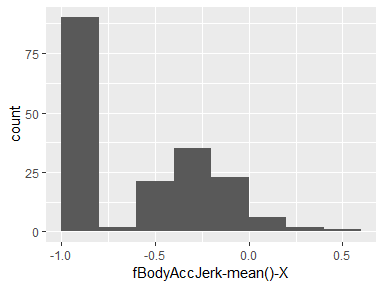
## fBodyAcc-meanFreq()-Z

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | 0.07 |
| 1st and 3rd quartiles | -0.04; 0.18 |
| Min. and max. | -0.52; 0.4 |



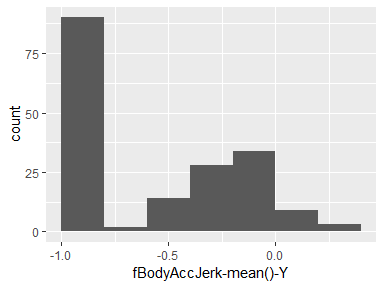
## fBodyAccJerk-mean()-X

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.81 |
| 1st and 3rd quartiles | -0.98; -0.28 |
| Min. and max. | -0.99; 0.47 |



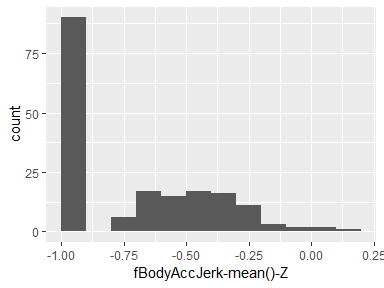
## fBodyAccJerk-mean()-Y

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.78 |
| 1st and 3rd quartiles | -0.97; -0.2 |
| Min. and max. | -0.99; 0.28 |



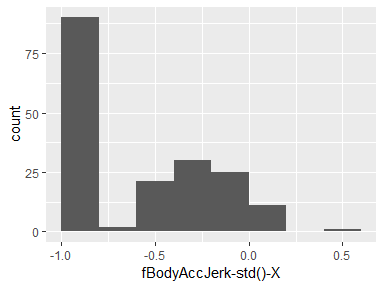
## fBodyAccJerk-mean()-Z

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.87 |
| 1st and 3rd quartiles | -0.98; -0.47 |
| Min. and max. | -0.99; 0.16 |



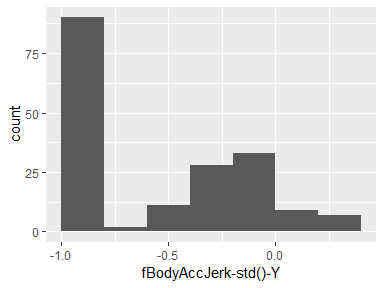
## fBodyAccJerk-std()-X

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.83 |
| 1st and 3rd quartiles | -0.98; -0.25 |
| Min. and max. | -1; 0.48 |



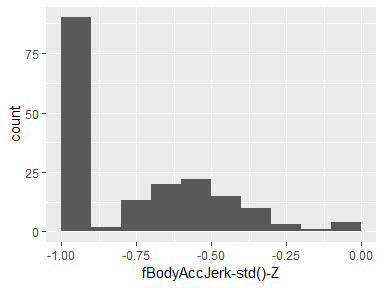
## fBodyAccJerk-std()-Y

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.79 |
| 1st and 3rd quartiles | -0.97; -0.17 |
| Min. and max. | -0.99; 0.35 |



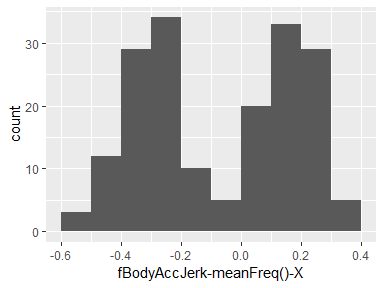
## fBodyAccJerk-std()-Z

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.9 |
| 1st and 3rd quartiles | -0.98; -0.54 |
| Min. and max. | -0.99; -0.01 |



## fBodyAccJerk-meanFreq()-X

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.06 |
| 1st and 3rd quartiles | -0.29; 0.18 |
| Min. and max. | -0.58; 0.33 |



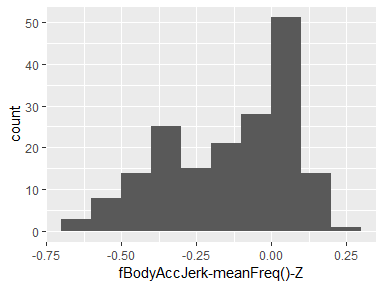
## fBodyAccJerk-meanFreq()-Y

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.23 |
| 1st and 3rd quartiles | -0.4; -0.05 |
| Min. and max. | -0.6; 0.2 |



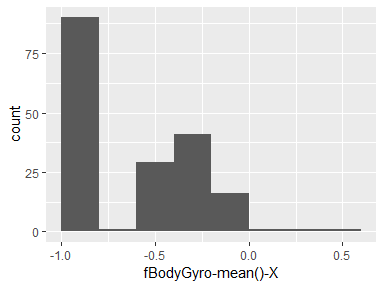
## fBodyAccJerk-meanFreq()-Z

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.09 |
| 1st and 3rd quartiles | -0.31; 0.04 |
| Min. and max. | -0.63; 0.23 |



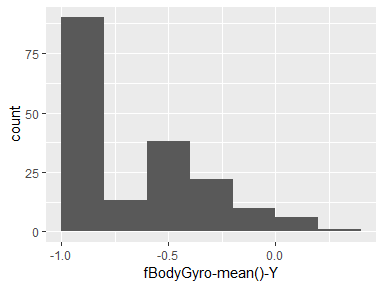
## fBodyGyro-mean()-X

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.73 |
| 1st and 3rd quartiles | -0.97; -0.34 |
| Min. and max. | -0.99; 0.47 |



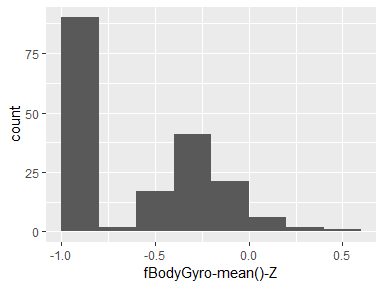
## fBodyGyro-mean()-Y

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.81 |
| 1st and 3rd quartiles | -0.97; -0.45 |
| Min. and max. | -0.99; 0.33 |



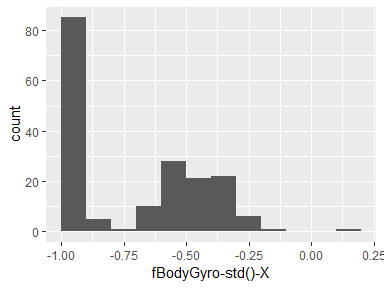
## fBodyGyro-mean()-Z

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.79 |
| 1st and 3rd quartiles | -0.96; -0.26 |
| Min. and max. | -0.99; 0.49 |



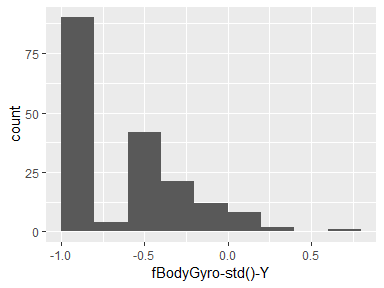
## fBodyGyro-std()-X

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.81 |
| 1st and 3rd quartiles | -0.98; -0.48 |
| Min. and max. | -0.99; 0.2 |



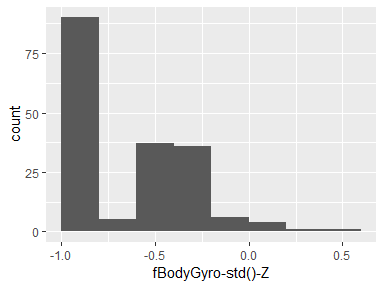
## fBodyGyro-std()-Y

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.8 |
| 1st and 3rd quartiles | -0.96; -0.42 |
| Min. and max. | -0.99; 0.65 |



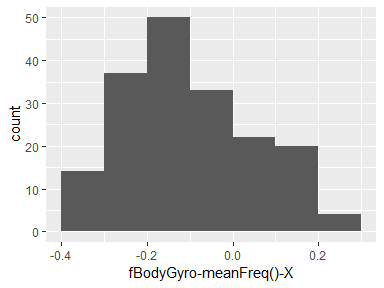
## fBodyGyro-std()-Z

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.82 |
| 1st and 3rd quartiles | -0.96; -0.39 |
| Min. and max. | -0.99; 0.52 |



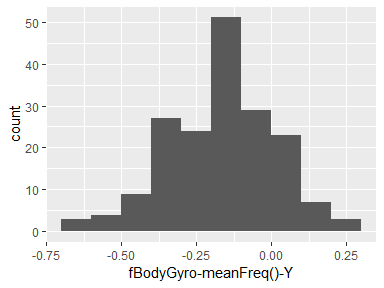
## fBodyGyro-meanFreq()-X

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.12 |
| 1st and 3rd quartiles | -0.21; 0 |
| Min. and max. | -0.4; 0.25 |



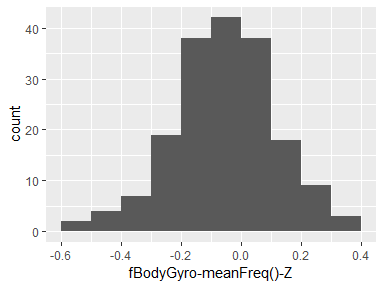
## fBodyGyro-meanFreq()-Y

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.16 |
| 1st and 3rd quartiles | -0.29; -0.04 |
| Min. and max. | -0.67; 0.27 |



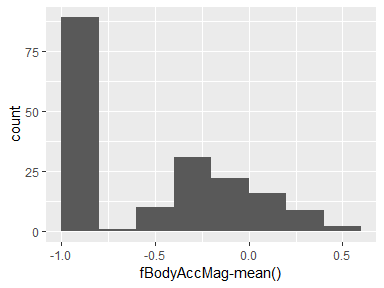
## fBodyGyro-meanFreq()-Z

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.05 |
| 1st and 3rd quartiles | -0.15; 0.04 |
| Min. and max. | -0.51; 0.38 |



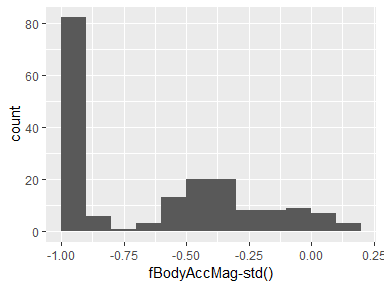
## fBodyAccMag-mean()

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.67 |
| 1st and 3rd quartiles | -0.96; -0.16 |
| Min. and max. | -0.99; 0.59 |



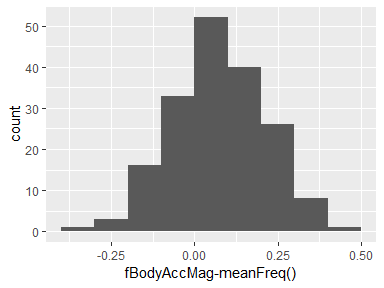
## fBodyAccMag-std()

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.65 |
| 1st and 3rd quartiles | -0.95; -0.37 |
| Min. and max. | -0.99; 0.18 |



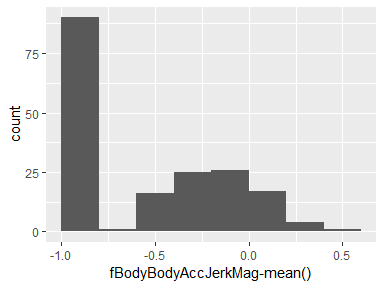
## fBodyAccMag-meanFreq()

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | 0.08 |
| 1st and 3rd quartiles | -0.01; 0.17 |
| Min. and max. | -0.31; 0.44 |



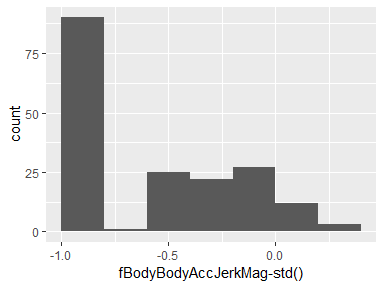
## fBodyBodyAccJerkMag-mean()

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.79 |
| 1st and 3rd quartiles | -0.98; -0.19 |
| Min. and max. | -0.99; 0.54 |



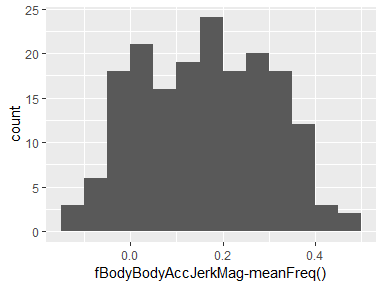
## fBodyBodyAccJerkMag-std()

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.81 |
| 1st and 3rd quartiles | -0.98; -0.27 |
| Min. and max. | -0.99; 0.32 |



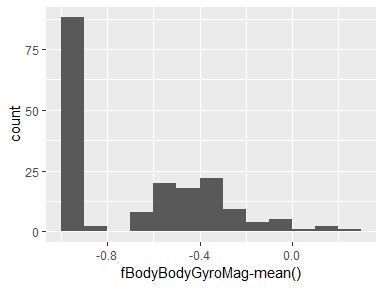
## fBodyBodyAccJerkMag-meanFreq()

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | 0.17 |
| 1st and 3rd quartiles | 0.05; 0.28 |
| Min. and max. | -0.13; 0.49 |



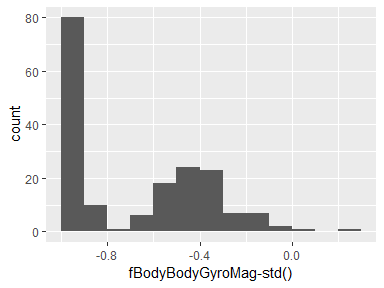
## fBodyBodyGyroMag-mean()

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.77 |
| 1st and 3rd quartiles | -0.96; -0.41 |
| Min. and max. | -0.99; 0.2 |



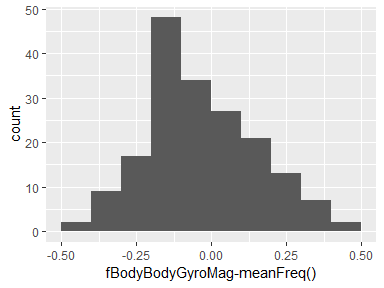
## fBodyBodyGyroMag-std()

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.77 |
| 1st and 3rd quartiles | -0.95; -0.43 |
| Min. and max. | -0.98; 0.24 |



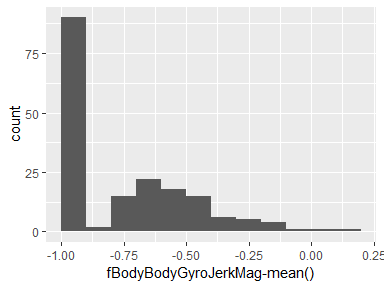
## fBodyBodyGyroMag-meanFreq()

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.05 |
| 1st and 3rd quartiles | -0.17; 0.08 |
| Min. and max. | -0.46; 0.41 |



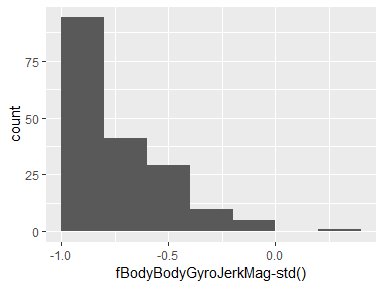
## fBodyBodyGyroJerkMag-mean()

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.88 |
| 1st and 3rd quartiles | -0.98; -0.58 |
| Min. and max. | -1; 0.15 |



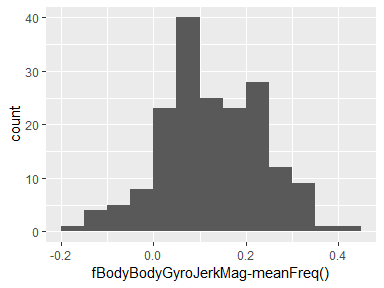
## fBodyBodyGyroJerkMag-std()

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.89 |
| 1st and 3rd quartiles | -0.98; -0.61 |
| Min. and max. | -1; 0.29 |



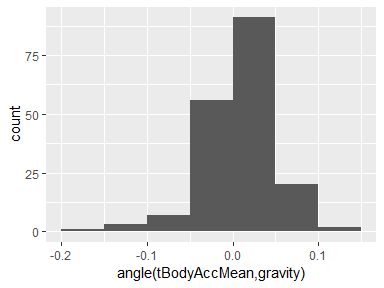
## fBodyBodyGyroJerkMag-meanFreq()

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | 0.11 |
| 1st and 3rd quartiles | 0.05; 0.21 |
| Min. and max. | -0.18; 0.43 |



## angle(tBodyAccMean,gravity)

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | 0.01 |
| 1st and 3rd quartiles | -0.01; 0.02 |
| Min. and max. | -0.16; 0.13 |



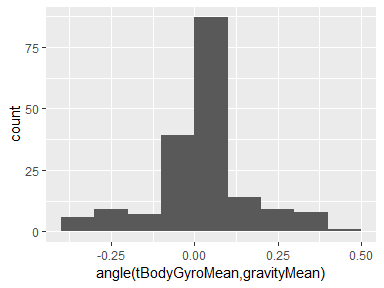
## angle(tBodyAccJerkMean),gravityMean)

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | 0 |
| 1st and 3rd quartiles | -0.02; 0.02 |
| Min. and max. | -0.12; 0.2 |

-1.png)

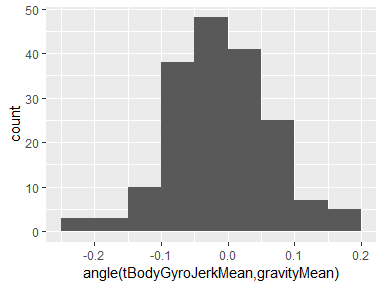
## angle(tBodyGyroMean,gravityMean)

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | 0.02 |
| 1st and 3rd quartiles | -0.02; 0.06 |
| Min. and max. | -0.39; 0.44 |



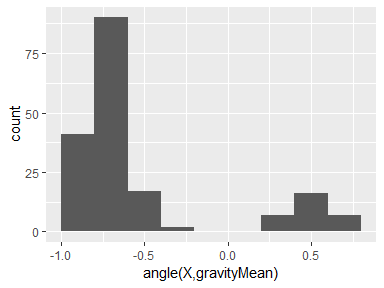
## angle(tBodyGyroJerkMean,gravityMean)

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.02 |
| 1st and 3rd quartiles | -0.06; 0.03 |
| Min. and max. | -0.22; 0.18 |



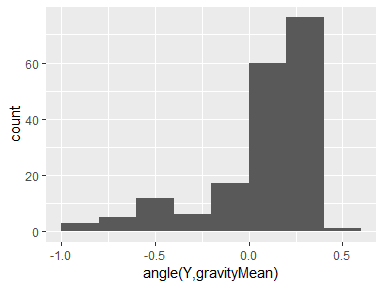
## angle(X,gravityMean)

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | -0.74 |
| 1st and 3rd quartiles | -0.79; -0.58 |
| Min. and max. | -0.95; 0.74 |



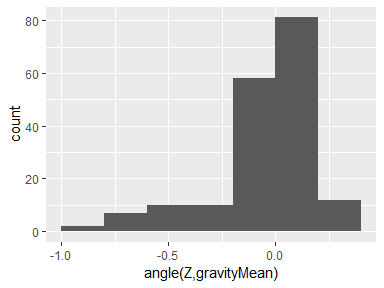
## angle(Y,gravityMean)

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | 0.17 |
| 1st and 3rd quartiles | 0.02; 0.24 |
| Min. and max. | -0.87; 0.42 |



## angle(Z,gravityMean)

|  |  |
| --- | --- |
| Feature | Result |
| Variable type | numeric |
| Number of missing obs. | 0 (0 %) |
| Number of unique values | 180 |
| Median | 0.01 |
| 1st and 3rd quartiles | -0.08; 0.11 |
| Min. and max. | -0.87; 0.39 |



Report generation information:

* Report creation time: Tue Jan 15 2019 22:56:04
* Report was run from directory: d:/users/wittha/Documents/RStudio/Module 3\_FinanlAssignment/UCI HAR Dataset
* dataMaid v1.2.0 [Pkg: 2018-10-03 from CRAN (R 3.5.2)]
* R version 3.5.2 (2018-12-20).
* Platform: x86\_64-w64-mingw32/x64 (64-bit)(Windows 7 x64 (build 7601) Service Pack 1).
* Function call: makeDataReport(data = tidy\_data, mode = c("summarize", "visualize", "check"), smartNum = FALSE, file = "codebook\_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 tidy\_data")