This Code Book specifies the values within the run_analysis_summary.txt file and data set.

For interpretation of values within the original data set that this data was summarised from, please refer to documentation within:

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

Variables within the run_analysis_summary.txt data set are:

subject_id

Description:	The ID of the subject that carried out the experiment
Derived Via:	Column bind of x_....txt files to subject_....txt files; subject_id set to subject_....txt file value (subject_....txt file contained a single column)
Data Type:	Integer
Value Range:	1 to 30

activity_id

Description:	The ID of the specific activity that the data was generated for; one to one match with activity_name to assist in interpretation
Derived Via:	Column bind of x_....txt files to y_....txt files; activity_id set to y_....txt file value (y_.... contained a single column)
Data Type:	Integer
Value Range:	1 to 6

activity_name

Description:	The text description of the specific activity that the data was generated for; one to one match with activity_id to assist in interpretation
Derived Via:	column 2 of activity_lables.txt, via column bind on from activity_id to column 1 of activity_labels.txt
Data Type:	Character
Value List:	WALKING (activity_id = 1)
	WALKING_UPSTAIRS (activity_id = 2)
	WALKING_DOWNSTAIRS (activity_id = 3)
	SITTING (activity_id = 4)
	STANDING (activity_id = 5)
	LAYING (activity_id = 6)

tbodyacc_mean_x_mean

Description:	The mean of the source data set variable tBodyAcc-mean()-X for this subject and activity
Derived Via:	mean() of source data set variable
Data Type:	Numeric
Value Range:	0.2215982 to 0.301461

tbodyacc_mean_y_mean

        Description: The mean of the source data set variable tBodyAcc-mean()-Y for this subject and activity

        Derived Via: mean() of source data set variable

        Data Type: Numeric

        Value Range: -0.04051395 to   -0.001308288

tbodyacc_mean_z_mean

        Description: The mean of the source data set variable tBodyAcc-mean()-Z for this subject and activity

        Derived Via: mean() of source data set variable

        Data Type: Numeric

        Value Range: -0.1525139 to   -0.07537847

tbodyacc_std_x_mean

        Description: The mean of the source data set variable tBodyAcc-std()-X for this subject and activity

        Derived Via: mean() of source data set variable

        Data Type: Numeric

        Value Range: -0.9960686 to   0.6269171

tbodyacc_std_y_mean

        Description: The mean of the source data set variable tBodyAcc-std()-Y for this subject and activity

        Derived Via: mean() of source data set variable

        Data Type: Numeric

        Value Range: -0.9902409 to   0.616937

tbodyacc_std_z_mean

        Description: The mean of the source data set variable tBodyAcc-std()-Z for this subject and activity

        Derived Via: mean() of source data set variable

        Data Type: Numeric

        Value Range: -0.9876587 to   0.6090179

tgravityacc_mean_x_mean

        Description: The mean of the source data set variable tGravityAcc-mean()-X for this subject and activity

        Derived Via: mean() of source data set variable

        Data Type: Numeric

        Value Range: -0.6800432 to   0.9745087

tgravityacc_mean_y_mean

        Description: The mean of the source data set variable tGravityAcc-mean()-Y for this subject and activity

        Derived Via: mean() of source data set variable

        Data Type: Numeric

        Value Range: -0.4798948 to   0.9565938

tgravityacc_mean_z_mean

        Description: The mean of the source data set variable tGravityAcc-mean()-Z for this subject and activity

        Derived Via: mean() of source data set variable

        Data Type: Numeric

        Value Range: -0.4950887 to   0.957873

tgravityacc_std_x_mean

        Description: The mean of the source data set variable tGravityAcc-std()-X for this subject and activity

        Derived Via: mean() of source data set variable

        Data Type: Numeric

        Value Range: -0.9967642 to   -0.8295549

tgravityacc_std_y_mean

        Description: The mean of the source data set variable tGravityAcc-std()-Y for this subject and activity

        Derived Via: mean() of source data set variable

        Data Type: Numeric

        Value Range: -0.9942476 to   -0.6435784

tgravityacc_std_z_mean

        Description: The mean of the source data set variable tGravityAcc-std()-Z for this subject and activity

        Derived Via: mean() of source data set variable

        Data Type: Numeric

        Value Range: -0.9909572 to   -0.6101612

tbodyaccjerk_mean_x_mean

        Description: The mean of the source data set variable tBodyAccJerk-mean()-X for this subject and activity

        Derived Via: mean() of source data set variable

        Data Type: Numeric

        Value Range: 0.0426881 to   0.130193

tbodyaccjerk_mean_y_mean

        Description: The mean of the source data set variable tBodyAccJerk-mean()-Y for this subject and activity

        Derived Via: mean() of source data set variable

        Data Type: Numeric

        Value Range: -0.03868721 to   0.05681859

tbodyaccjerk_mean_z_mean

        Description: The mean of the source data set variable tBodyAccJerk-mean()-Z for this subject and activity

        Derived Via: mean() of source data set variable

        Data Type: Numeric

        Value Range: -0.06745839 to   0.03805336

tbodyaccjerk_std_x_mean

        Description: The mean of the source data set variable tBodyAccJerk-std()-X for this subject and activity

        Derived Via: mean() of source data set variable

        Data Type: Numeric

        Value Range: -0.9946045 to   0.544273

tbodyaccjerk_std_y_mean

        Description: The mean of the source data set variable tBodyAccJerk-std()-Y for this subject and activity

        Derived Via: mean() of source data set variable

        Data Type: Numeric

        Value Range: -0.9895136 to   0.3553067

tbodyaccjerk_std_z_mean

        Description: The mean of the source data set variable tBodyAccJerk-std()-Z for this subject and activity

        Derived Via: mean() of source data set variable

        Data Type: Numeric

        Value Range: -0.9932883 to   0.03101571

tbodygyro_mean_x_mean

        Description: The mean of the source data set variable tBodyGyro-mean()-X for this subject and activity

        Derived Via: mean() of source data set variable

        Data Type: Numeric

        Value Range: -0.2057754 to   0.1927045

tbodygyro_mean_y_mean

        Description: The mean of the source data set variable tBodyGyro-mean()-Y for this subject and activity

        Derived Via: mean() of source data set variable

        Data Type: Numeric

        Value Range: -0.2042054 to   0.02747076

tbodygyro_mean_z_mean

        Description: The mean of the source data set variable tBodyGyro-mean()-Z for this subject and activity

        Derived Via: mean() of source data set variable

        Data Type: Numeric

        Value Range: -0.0724546 to   0.1791021

tbodygyro_std_x_mean

        Description: The mean of the source data set variable tBodyGyro-std()-X for this subject and activity

        Derived Via: mean() of source data set variable

        Data Type: Numeric

        Value Range: -0.9942766 to   0.2676572

tbodygyro_std_y_mean

        Description: The mean of the source data set variable tBodyGyro-std()-Y for this subject and activity

        Derived Via: mean() of source data set variable

        Data Type: Numeric

        Value Range: -0.9942105 to   0.4765187

tbodygyro_std_z_mean

        Description: The mean of the source data set variable tBodyGyro-std()-Z for this subject and activity

        Derived Via: mean() of source data set variable

        Data Type: Numeric

        Value Range: -0.9855384 to   0.5648758

tbodygyrojerk_mean_x_mean

        Description: The mean of the source data set variable tBodyGyroJerk-mean()-X for this subject and activity

        Derived Via: mean() of source data set variable

        Data Type: Numeric

        Value Range: -0.1572125 to   -0.02209163

tbodygyrojerk_mean_y_mean

        Description: The mean of the source data set variable tBodyGyroJerk-mean()-Y for this subject and activity

        Derived Via: mean() of source data set variable

        Data Type: Numeric

        Value Range: -0.07680899 to   -0.01320228

tbodygyrojerk_mean_z_mean

        Description: The mean of the source data set variable tBodyGyroJerk-mean()-Z for this subject and activity

        Derived Via: mean() of source data set variable

        Data Type: Numeric

        Value Range: -0.09249985 to   -0.006940664

tbodygyrojerk_std_x_mean

        Description: The mean of the source data set variable tBodyGyroJerk-std()-X for this subject and activity

        Derived Via: mean() of source data set variable

        Data Type: Numeric

        Value Range: -0.9965425 to   0.1791486

tbodygyrojerk_std_y_mean

        Description: The mean of the source data set variable tBodyGyroJerk-std()-Y for this subject and activity

        Derived Via: mean() of source data set variable

        Data Type: Numeric

        Value Range: -0.9970816 to   0.2959459

tbodygyrojerk_std_z_mean

        Description: The mean of the source data set variable tBodyGyroJerk-std()-Z for this subject and activity

        Derived Via: mean() of source data set variable

        Data Type: Numeric

        Value Range: -0.9953808 to   0.1932065

tbodyaccmag_mean_mean

        Description: The mean of the source data set variable tBodyAccMag-mean() for this subject and activity

        Derived Via: mean() of source data set variable

        Data Type: Numeric

        Value Range: -0.9864932 to   0.6446043

tbodyaccmag_std_mean

    Description: The mean of the source data set variable tBodyAccMag-std() for this subject and activity

    Derived Via: mean() of source data set variable

    Data Type: Numeric

    Value Range: -0.9864645 to 0.4284059

tgravityaccmag_mean_mean

    Description: The mean of the source data set variable tGravityAccMag-mean() for this subject and activity

    Derived Via: mean() of source data set variable

    Data Type: Numeric

    Value Range: -0.9864932 to 0.6446043

tgravityaccmag_std_mean

    Description: The mean of the source data set variable tGravityAccMag-std() for this subject and activity

    Derived Via: mean() of source data set variable

    Data Type: Numeric

    Value Range: -0.9864645 to 0.4284059

tbodyaccjerkmag_mean_mean

    Description: The mean of the source data set variable tBodyAccJerkMag-mean() for this subject and activity

    Derived Via: mean() of source data set variable

    Data Type: Numeric

    Value Range: -0.9928147 to 0.4344904

tbodyaccjerkmag_std_mean

    Description: The mean of the source data set variable tBodyAccJerkMag-std() for this subject and activity

    Derived Via: mean() of source data set variable

    Data Type: Numeric

    Value Range: -0.9946469 to 0.4506121

tbodygyromag_mean_mean

    Description: The mean of the source data set variable tBodyGyroMag-mean() for this subject and activity

    Derived Via: mean() of source data set variable

    Data Type: Numeric

    Value Range: -0.9807408 to 0.4180046

tbodygyromag_std_mean

       Description: The mean of the source data set variable tBodyGyroMag-std() for this subject and activity

       Derived Via: mean() of source data set variable

       Data Type: Numeric

       Value Range: -0.9813727 to   0.299976

tbodygyrojerkmag_mean_mean

       Description: The mean of the source data set variable tBodyGyroJerkMag-mean() for this subject and activity

       Derived Via: mean() of source data set variable

       Data Type: Numeric

       Value Range: -0.9973225 to   0.08758166

tbodygyrojerkmag_std_mean

       Description: The mean of the source data set variable tBodyGyroJerkMag-std() for this subject and activity

       Derived Via: mean() of source data set variable

       Data Type: Numeric

       Value Range: -0.9976661 to   0.2501732

fbodyacc_mean_x_mean

       Description: The mean of the source data set variable fBodyAcc-mean()-X for this subject and activity

       Derived Via: mean() of source data set variable

       Data Type: Numeric

       Value Range: -0.9952499 to   0.537012

fbodyacc_mean_y_mean

       Description: The mean of the source data set variable fBodyAcc-mean()-Y for this subject and activity

       Derived Via: mean() of source data set variable

       Data Type: Numeric

       Value Range: -0.9890343 to   0.5241877

fbodyacc_mean_z_mean

       Description: The mean of the source data set variable fBodyAcc-mean()-Z for this subject and activity

       Derived Via: mean() of source data set variable

       Data Type: Numeric

       Value Range: -0.9894739 to   0.280736

fbodyacc_std_x_mean

Description:	The mean of the source data set variable fBodyAcc-std()-X for this subject and activity	
Derived Via:	mean() of source data set variable	
Data Type:	Numeric	
Value Range:	-0.9966046 to	0.6585065

fbodyacc_std_y_mean

Description:	The mean of the source data set variable fBodyAcc-std()-Y for this subject and activity	
Derived Via:	mean() of source data set variable	
Data Type:	Numeric	
Value Range:	-0.9906804 to	0.5601913

fbodyacc_std_z_mean

Description:	The mean of the source data set variable fBodyAcc-std()-Z for this subject and activity	
Derived Via:	mean() of source data set variable	
Data Type:	Numeric	
Value Range:	-0.9872248 to	0.6871242

fbodyaccjerk_mean_x_mean

Description:	The mean of the source data set variable fBodyAccJerk-mean()-X for this subject and activity	
Derived Via:	mean() of source data set variable	
Data Type:	Numeric	
Value Range:	-0.9946308 to	0.4743173

fbodyaccjerk_mean_y_mean

Description:	The mean of the source data set variable fBodyAccJerk-mean()-Y for this subject and activity	
Derived Via:	mean() of source data set variable	
Data Type:	Numeric	
Value Range:	-0.9893988 to	0.2767169

fbodyaccjerk_mean_z_mean

Description:	The mean of the source data set variable fBodyAccJerk-mean()-Z for this subject and activity	
Derived Via:	mean() of source data set variable	
Data Type:	Numeric	
Value Range:	-0.9920184 to	0.1577757

fbodyaccjerk_std_x_mean

    Description: The mean of the source data set variable fBodyAccJerk-std()-X for this subject and activity

    Derived Via: mean() of source data set variable

    Data Type: Numeric

    Value Range: -0.9950738 to   0.4768039

fbodyaccjerk_std_y_mean

    Description: The mean of the source data set variable fBodyAccJerk-std()-Y for this subject and activity

    Derived Via: mean() of source data set variable

    Data Type: Numeric

    Value Range: -0.9904681 to   0.3497713

fbodyaccjerk_std_z_mean

    Description: The mean of the source data set variable fBodyAccJerk-std()-Z for this subject and activity

    Derived Via: mean() of source data set variable

    Data Type: Numeric

    Value Range: -0.9931078 to   -0.006236475

fbodygyro_mean_x_mean

    Description: The mean of the source data set variable fBodyGyro-mean()-X for this subject and activity

    Derived Via: mean() of source data set variable

    Data Type: Numeric

    Value Range: -0.9931226 to   0.4749624

fbodygyro_mean_y_mean

    Description: The mean of the source data set variable fBodyGyro-mean()-Y for this subject and activity

    Derived Via: mean() of source data set variable

    Data Type: Numeric

    Value Range: -0.9940255 to   0.328817

fbodygyro_mean_z_mean

    Description: The mean of the source data set variable fBodyGyro-mean()-Z for this subject and activity

    Derived Via: mean() of source data set variable

    Data Type: Numeric

    Value Range: -0.9859578 to   0.4924144

fbodygyro_std_x_mean

        Description: The mean of the source data set variable fBodyGyro-std()-X for this subject and activity

        Derived Via: mean() of source data set variable

        Data Type: Numeric

        Value Range: -0.9946522 to   0.1966133

fbodygyro_std_y_mean

        Description: The mean of the source data set variable fBodyGyro-std()-Y for this subject and activity

        Derived Via: mean() of source data set variable

        Data Type: Numeric

        Value Range: -0.9943531 to   0.6462336

fbodygyro_std_z_mean

        Description: The mean of the source data set variable fBodyGyro-std()-Z for this subject and activity

        Derived Via: mean() of source data set variable

        Data Type: Numeric

        Value Range: -0.9867253 to   0.5224542

fbodyaccmag_mean_mean

        Description: The mean of the source data set variable fBodyAccMag-mean() for this subject and activity

        Derived Via: mean() of source data set variable

        Data Type: Numeric

        Value Range: -0.9868006 to   0.5866376

fbodyaccmag_std_mean

        Description: The mean of the source data set variable fBodyAccMag-std() for this subject and activity

        Derived Via: mean() of source data set variable

        Data Type: Numeric

        Value Range: -0.9876485 to   0.1786846

fbodybodyaccjerkmag_mean_mean

        Description: The mean of the source data set variable fBodyBodyAccJerkMag-mean() for this subject and activity

        Derived Via: mean() of source data set variable

        Data Type: Numeric

        Value Range: -0.9939983 to   0.5384048

fbodybodyaccjerkmag_std_mean

        Description: The mean of the source data set variable fBodyBodyAccJerkMag-std() for this subject and activity

        Derived Via: mean() of source data set variable

        Data Type: Numeric

        Value Range: -0.9943667 to   0.3163464

fbodybodygyromag_mean_mean

        Description: The mean of the source data set variable fBodyBodyGyroMag-mean() for this subject and activity

        Derived Via: mean() of source data set variable

        Data Type: Numeric

        Value Range: -0.9865352 to   0.2039798

fbodybodygyromag_std_mean

        Description: The mean of the source data set variable fBodyBodyGyroMag-std() for this subject and activity

        Derived Via: mean() of source data set variable

        Data Type: Numeric

        Value Range: -0.9814688 to   0.2366597

fbodybodygyrojerkmag_mean_mean

        Description: The mean of the source data set variable fBodyBodyGyroJerkMag-mean() for this subject and activity

        Derived Via: mean() of source data set variable

        Data Type: Numeric

        Value Range: -0.9976174 to   0.1466186

fbodybodygyrojerkmag_std_mean

        Description: The mean of the source data set variable fBodyBodyGyroJerkMag-std() for this subject and activity

        Derived Via: mean() of source data set variable

        Data Type: Numeric

        Value Range: -0.9975852 to   0.2878346