Code Book

name as described in raw data	descriptive name used in tidy data	units
subject	subject	NA
activity	activity	NA
tBodyAcc-mean()-X	mean of x-dim time domain linear acceleration	g (9.8m/(s*s)
tBodyAcc-mean()-Y	mean of y-dim time domain linear acceleration	g (9.8m/(s*s)
tBodyAcc-mean()-Z	mean of z-dim time domain linear acceleration	g (9.8m/(s*s)
tBodyAcc-std()-X	std of x-dim time domain linear acceleration	g (9.8m/(s*s)
tBodyAcc-std()-Y	std of y-dim time domain linear acceleration	g (9.8m/(s*s)
tBodyAcc-std()-Z	std of z-dim time domain linear acceleration	g (9.8m/(s*s)
tGravityAcc-mean()-X	mean of x-dim time domain gravitational acceleration	g (9.8m/(s*s)
tGravityAcc-mean()-Y	mean of y-dim time domain gravitational acceleration	g (9.8m/(s*s)
tGravityAcc-mean()-Z	mean of z-dim time domain gravitational acceleration	g (9.8m/(s*s)
tGravityAcc-std()-X	std of x-dim time domain gravitational acceleration	g (9.8m/(s*s)
tGravityAcc-std()-Y	std of y-dim time domain gravitational acceleration	g (9.8m/(s*s)
tGravityAcc-std()-Z	std of z-dim time domain gravitational acceleration	g (9.8m/(s*s)
tBodyAccJerk-mean()-X	mean of x-dim first derivative of time domain linear acceleration	g/s
tBodyAccJerk-mean()-Y	mean of y-dim first derivative of time domain linear acceleration	g/s
tBodyAccJerk-mean()-Z	mean of z-dim first derivative of time domain linear acceleration	g/s
tBodyAccJerk-std()-X	std of x-dim first derivative of time domain linear acceleration	g/s
tBodyAccJerk-std()-Y	std of y-dim first derivative of time domain linear acceleration	g/s
tBodyAccJerk-std()-Z	std of z-dim first derivative of time domain linear acceleration	g/s
tBodyGyro-mean()-X	mean of x-dim time domain angular acceleration	g (9.8m/(s*s)
tBodyGyro-mean()-Y	mean of y-dim time domain angular acceleration	g (9.8m/(s*s)
tBodyGyro-mean()-Z	mean of z-dim time domain angular acceleration	g (9.8m/(s*s)
tBodyGyro-std()-X	std of x-dim time domain angular acceleration	g (9.8m/(s*s)
tBodyGyro-std()-Y	std of y-dim time domain angular acceleration	g (9.8m/(s*s)
tBodyGyro-std()-Z	std of z-dim time domain angular acceleration	g (9.8m/(s*s)
tBodyGyroJerk-mean()-X	mean of x-dim first derivative of time domain angular acceleration	g/s
tBodyGyroJerk-mean()-Y	mean of y-dim first derivative of time domain angular acceleration	g/s
tBodyGyroJerk-mean()-Z	mean of z-dim first derivative of time domain angular acceleration	g/s
tBodyGyroJerk-std()-X	std of x-dim first derivative of time domain angular acceleration	g/s
tBodyGyroJerk-std()-Y	std of y-dim first derivative of time domain angular acceleration	g/s
tBodyGyroJerk-std()-Z	std of z-dim first derivative of time domain angular acceleration	g/s
tBodyAccMag-mean()	mean of non-dim magnitude of time domain linear acceleration	g (9.8m/(s*s)
tBodyAccMag-std()	std of non-dim magnitude of time domain linear acceleration	g (9.8m/(s*s)
tGravityAccMag-mean()	mean of non-dim magnitude of time domain gravitational acceleration	g (9.8m/(s*s)
tGravityAccMag-std()	std of non-dim magnitude of time domain gravitational acceleration	g (9.8m/(s*s)
tBodyAccJerkMag-mean()	mean of non-dim magnitude of first derivative of time domain linear acceleration	g/s
tBodyAccJerkMag-std()	std of non-dim magnitude of first derivative of time domain linear acceleration	g/s
tBodyGyroMag-mean()	mean of non-dim magnitude of time domain angular acceleration	g (9.8m/(s*s)
tBodyGyroMag-std()	std of non-dim magnitude of time domain angular acceleration	g (9.8m/(s*s)
tBodyGyroJerkMag-mean()	mean of non-dim magnitude of first derivative of time domain angular acceleration	g/s
tBodyGyroJerkMag-std()	std of non-dim magnitude of first derivative of time domain angular acceleration	g/s
fBodyAcc-mean()-X	mean of x-dim frequency domain linear acceleration	g (9.8m/(s*s)
fBodyAcc-mean()-Y	mean of y-dim frequency domain linear acceleration	g (9.8m/(s*s)
fBodyAcc-mean()-Z	mean of z-dim frequency domain linear acceleration	g (9.8m/(s*s)
fBodyAcc-std()-X	std of x-dim frequency domain linear acceleration	g (9.8m/(s*s)
fBodyAcc-std()-Y	std of y-dim frequency domain linear acceleration	g (9.8m/(s*s)
fBodyAcc-std()-Z	std of z-dim frequency domain linear acceleration	g (9.8m/(s*s)
fBodyAccJerk-mean()-X	mean of x-dim first derivative of frequency domain linear acceleration	g/s
fBodyAccJerk-mean()-Y	mean of y-dim first derivative of frequency domain linear acceleration	g/s
fBodyAccJerk-mean()-Z	mean of z-dim first derivative of frequency domain linear acceleration	g/s
fBodyAccJerk-std()-X	std of x-dim first derivative of frequency domain linear acceleration	g/s
fBodyAccJerk-std()-Y	std of y-dim first derivative of frequency domain linear acceleration	g/s
fBodyAccJerk-std()-Z	std of z-dim first derivative of frequency domain linear acceleration	g/s
fBodyGyro-mean()-X	mean of x-dim frequency domain angular acceleration	g (9.8m/(s*s)
fBodyGyro-mean()-Y	mean of y-dim frequency domain angular acceleration	g (9.8m/(s*s)
fBodyGyro-mean()-Z	mean of z-dim frequency domain angular acceleration	g (9.8m/(s*s)
fBodyGyro-std()-X	std of x-dim frequency domain angular acceleration	g (9.8m/(s*s)
fBodyGyro-std()-Y	std of y-dim frequency domain angular acceleration	g (9.8m/(s*s)
fBodyGyro-std()-Z	std of z-dim frequency domain angular acceleration	g (9.8m/(s*s)
fBodyAccMag-mean()	mean of non-dim magnitude of frequency domain linear acceleration	g (9.8m/(s*s)
fBodyAccMag-std()	std of non-dim magnitude of frequency domain linear acceleration	g (9.8m/(s*s)
fBodyBodyAccJerkMag-mean()	mean of non-dim magnitude of first derivative of frequency domain linear acceleration	g/s
fBodyBodyAccJerkMag-std()	std of non-dim magnitude of first derivative of frequency domain linear acceleration	g/s
fBodyBodyGyroMag-mean()	mean of non-dim magnitude of frequency domain angular acceleration	g (9.8m/(s*s)
fBodyBodyGyroMag-std()	std of non-dim magnitude of frequency domain angular acceleration	g (9.8m/(s*s)
fBodyBodyGyroJerkMag-mean()	mean of non-dim magnitude of first derivative of frequency domain angular acceleration	g/s
fBodyBodyGyroJerkMag-std()	std of non-dim magnitude of first derivative of frequency domain angular acceleration	g/s