GETTING AND CLEANING DATA COURSE PROJECT

CODE BOOK FOR THE HUMAN ACTIVITY RECOGNITION TIDY DATA SET

VARIABLE NAME	VARIABLE TYPE	RANGE OF VALUES
activity	character string	One of [WALKING, WALKING_UPSTAIRS, WALKING_DOWNSTAIRS, SITTING, STANDING, LAYING]
subject	numeric	From 1 to 30
tBodyAccmeanX tBodyAccmeanY tBodyAccmeanZ tGravityAccmeanX tGravityAccmeanY tGravityAccmeanZ tBodyAccJerkmeanX tBodyAccJerkmeanY tBodyAccJerkmeanZ tBodyGyromeanX tBodyGyromeanY tBodyGyromeanZ tBodyGyroJerkmeanX tBodyGyroJerkmeanY tBodyGyroJerkmeanZ tBodyAccMagmean tGravityAccMagmean tBodyAccJerkMagmean tBodyGyroMagmean tBodyGyroJerkMagmean fBodyAccmeanX fBodyAccmeanY fBodyAccmeanZ fBodyAccJerkmeanX fBodyAccJerkmeanY fBodyAccJerkmeanZ fBodyGyromeanX fBodyGyromeanY fBodyGyromeanZ fBodyAccMagmean fBodyBodyAccJerkMagmean fBodyBodyGyroMagmean fBodyBodyGyroJerkMagmean tBodyAccstdX tBodyAccstdY tBodyAccstdZ	Mean and standard deviation of features with the same name. These features were come from the accelerometer and gyroscope 3-axial raw signals tAcc-XYZ and tGyro-XYZ. These signals were used to estimate variables of the feature vector for each pattern: '-XYZ' is used to denote 3-axial signals in the X, Y and Z directions. This data set consists of only the mean and standard of the selected features (33 features for mean and standard deviation each). The original data set has 561 features. The “R” script on GitHub details how this tidy data set was derived from the original data set.	Means and standard deviation of normalized values between -1 and 1 in the original feature measurements.

tGravityAccstdX tGravityAccstdY tGravityAccstdZ tBodyAccJerkstdX tBodyAccJerkstdY tBodyAccJerkstdZ tBodyGyrostdX tBodyGyrostdY tBodyGyrostdZ tBodyGyroJerkstdX tBodyGyroJerkstdY tBodyGyroJerkstdZ tBodyAccMagstd tGravityAccMagstd tBodyAccJerkMagstd tBodyGyroMagstd tBodyGyroJerkMagstd fBodyAccstdX fBodyAccstdY fBodyAccstdZ fBodyAccJerkstdX fBodyAccJerkstdY fBodyAccJerkstdZ fBodyGyrostdX fBodyGyrostdY fBodyGyrostdZ fBodyAccMagstd fBodyBodyAccJerkMagstd fBodyBodyGyroMagstd fBodyBodyGyroJerkMagstd		