Coursera : Get and Cleaning data / Course project
Date : 25 jan. 2015
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Code book: describes the variable of the tidy data set
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Subject — Subject test: a code represent a test person
Value range from 1 to 30

Activity — activity labels: a code represent an activity
Value range from 1 to 6

1 walking
2 walking.upstairs
3 walking.downstairs
4 sitting
5 standing
6 laying

mean(tBodyAcc.mean.X) — average value of the time body acceleration mean value in X direction

mean(tBodyAcc.mean.Y) — average value of the time body acceleration mean value in Y direction

mean(tBodyAcc.mean.Z) — average value of the time body acceleration mean value in Z direction

mean(tBodyAcc.std.X) — average value of the time body acceleration std value in X direction

mean(tBodyAcc.std.Y) — average value of the time body acceleration std value in Y direction

mean(tBodyAcc.std.Z) — average value of the time body acceleration std value in Z direction

mean(tGravityAcc.mean.X) — average value of the time Gravitation acceleration mean value in X direction

mean(tGravityAcc.mean.Y) — average value of the time Gravitation acceleration mean value in Y direction

mean(tGravityAcc.mean.Z) — average value of the time Gravitation acceleration mean value in Z direction

mean(tGravityAcc.std.X) — average value of the time Gravitation acceleration std value in X direction

mean(tGravityAcc.std.Y) — average value of the time Gravitation acceleration std value in Y direction

mean(tGravityAcc.std.Z) — average value of the time Gravitation acceleration std value in Z direction

mean(tBodyAccJerk.mean.X) — average value of the time body acceleration Jerk signal mean value in X direction

mean(tBodyAccJerk.mean.Y) — verage value of the time body acceleration Jerk signal mean value in Y direction

mean(tBodyAccJerk.mean.Z) — verage value of the time body acceleration Jerk signal mean value in Z direction

mean(tBodyAccJerk.std.X) — average value of the time body acceleration Jerk signal std

	value in X direction
mean(tBodyAccJerk.std.Y)	average value of the time body acceleration Jerk signal std value in Y direction
mean(tBodyAccJerk.std.Z)	average value of the time body acceleration Jerk signal std value in Z direction
mean(tBodyGyro.mean.X)	average value of the time body acceleration Gyroscope signal mean value in X direction
mean(tBodyGyro.mean.Y)	average value of the time body acceleration Gyroscope signal mean value in Y direction
mean(tBodyGyro.mean.Z)	average value of the time body acceleration Gyroscope signal mean value in Z direction
mean(tBodyGyro.std.X)	average value of the time body acceleration Gyroscope signal std value in X direction
mean(tBodyGyro.std.Y)	average value of the time body acceleration Gyroscope signal std value in Y direction
mean(tBodyGyro.std.Z)	average value of the time body acceleration Gyroscope signal std value in Z direction
mean(tBodyGyroJerk.mean.X)	average value of the time body acceleration Gyroscope Jerk signal mean value in X direction
mean(tBodyGyroJerk.mean.Y)	average value of the time body acceleration Gyroscope Jerk signal mean value in Y direction
mean(tBodyGyroJerk.mean.Z)	average value of the time body acceleration Gyroscope Jerk signal mean value in Z direction
mean(tBodyGyroJerk.std.X)	average value of the time body acceleration Gyroscope Jerk signal std value in X direction
mean(tBodyGyroJerk.std.Y)	average value of the time body acceleration Gyroscope Jerk signal std value in Y direction
mean(tBodyGyroJerk.std.Z)	average value of the time body acceleration Gyroscope Jerk signal std value in Z direction
mean(tBodyAccMag.mean)	average value of the time body acceleration Magnitude signal mean value
mean(tBodyAccMag.std)	average value of the time body acceleration Magnitude signal std value
mean(tGravityAccMag.mean)	average value of the time Gravitation acceleration Magnitude signal mean value
mean(tGravityAccMag.std)	average value of the time Gravitation acceleration Magnitude signal std value
mean(tBodyAccJerkMag.mean)	average value of the time body acceleration Jerk Magnitude signal mean value
mean(tBodyAccJerkMag.std)	average value of the time body acceleration Jerk Magnitude signal std value
mean(tBodyGyroMag.mean)	average value of the time body Gyroscope Magnitude signal mean value
mean(tBodyGyroMag.std)	average value of the time body Gyroscope Magnitude signal std value

mean(tBodyGyroJerkMag.mean)	average value of the time body Gyroscope Jerk Magnitude signal mean value
mean(tBodyGyroJerkMag.std)	average value of the time body Gyroscope Jerk Magnitude signal std value
mean(fBodyAcc.mean.X)	average value of the time body acceleration signal mean value in X direction
mean(fBodyAcc.mean.Y)	average value of the time body acceleration signal mean value in Y direction
mean(fBodyAcc.mean.Z)	average value of the time body acceleration signal mean value in Z direction
mean(fBodyAcc.std.X)	average value of the time body acceleration signal std value in X direction
mean(fBodyAcc.std.Y)	average value of the time body acceleration signal std value in Y direction
mean(fBodyAcc.std.Z)	average value of the time body acceleration signal std value in Z direction
mean(fBodyAcc.meanFreq.X)	average value of the frequency body acceleration signal mean frequency value in X direction
mean(fBodyAcc.meanFreq.Y)	average value of the frequency body acceleration signal mean frequency value in Y direction
mean(fBodyAcc.meanFreq.Z)	average value of the frequency body acceleration signal mean frequency value in Z direction
mean(fBodyAccJerk.mean.X)	....

mean(fBodyAccJerk.mean.Y)
mean(fBodyAccJerk.mean.Z)
mean(fBodyAccJerk.std.X)
mean(fBodyAccJerk.std.Y)
mean(fBodyAccJerk.std.Z)
mean(fBodyAccJerk.meanFreq.X)
mean(fBodyAccJerk.meanFreq.Y)
mean(fBodyAccJerk.meanFreq.Z)
mean(fBodyGyro.mean.X)
mean(fBodyGyro.mean.Y)
mean(fBodyGyro.mean.Z)
mean(fBodyGyro.std.X)
mean(fBodyGyro.std.Y)
mean(fBodyGyro.std.Z)
mean(fBodyGyro.meanFreq.X)
mean(fBodyGyro.meanFreq.Y)
mean(fBodyGyro.meanFreq.Z)
mean(fBodyAccMag.mean
mean(fBodyAccMag.std
mean(fBodyAccMag.meanFreq
mean(fBodyBodyAccJerkMag.mean
mean(fBodyBodyAccJerkMag.std
mean(fBodyBodyAccJerkMag.meanFreq
mean(fBodyBodyGyroMag.mean
mean(fBodyBodyGyroMag.std
mean(fBodyBodyGyroMag.meanFreq

mean(fBodyBodyGyroJerkMag.mean
mean(fBodyBodyGyroJerkMag.std
mean(fBodyBodyGyroJerkMag.meanFreq
 mean(angle(tBodyAccMean,gravity)
 mean(angle(tBodyAccJerkMean),gravityMean)
 mean(angle(tBodyGyroMean,gravityMean)
 mean(angle(tBodyGyroJerkMean,gravityMean)
 mean(angle(X,gravityMean)
 mean(angle(Y,gravityMean)
 mean(angle(Z,gravityMean)