

## Codebook of Data Analysis

- Human Activity Recognition of Smartphone (Samsung Galaxy S II)

subject

Volunteer to participant experient

1 :	Volunteer No.1
2 :	Volunteer No.2
3 :	Volunteer No.3
4 :	Volunteer No.4
5 :	Volunteer No.5
6 :	Volunteer No.6
7 :	Volunteer No.7
8 :	Volunteer No.8
9 :	Volunteer No.9
10 :	Volunteer No.10
11 :	Volunteer No.11
12 :	Volunteer No.12
13 :	Volunteer No.13
14 :	Volunteer No.14
15 :	Volunteer No.15
16 :	Volunteer No.16
17 :	Volunteer No.17
18 :	Volunteer No.18
19 :	Volunteer No.19
20 :	Volunteer No.20
21 :	Volunteer No.21
22 :	Volunteer No.22
23 :	Volunteer No.23
24 :	Volunteer No.24
25 :	Volunteer No.25
26 :	Volunteer No.26
27 :	Volunteer No.27
28 :	Volunteer No.28
29 :	Volunteer No.29
30 :	Volunteer No.30

activity

Activities to be performed during experiment

WALKING  
WALKING\_UPSTAIRS  
WALKING\_DOWNSTAIRS  
SITTING  
STANDING  
LAYING

type

Experiment type

Training  
Test

tBodyAcc-mean()-X

mean value of Axial X on tBodyAcc

unit: g

tBodyAcc-mean()-Y

mean value of Axial Y on tBodyAcc

unit: g

tBodyAcc-mean()-Z

mean value of Axial Z on tBodyAcc

unit: g

tGravityAcc-mean()-X

mean value of Axial X on tGravityAcc

tGravityAcc-mean()-Y	mean value of Axial Y on tGravityAcc	unit: g
tGravityAcc-mean()-Z	mean value of Axial Z on tGravityAcc	unit: g
tBodyAccJerk-mean()-X	mean value of Axial X on tBodyAccJerk	unit: g
tBodyAccJerk-mean()-Y	mean value of Axial Y on tBodyAccJerk	unit: g
tBodyAccJerk-mean()-Z	mean value of Axial Z on tBodyAccJerk	unit: g
tBodyGyro-mean()-X	mean value of Axial X on tBodyGyro	unit: radians/second
tBodyGyro-mean()-Y	mean value of Axial Y on tBodyGyro	unit: radians/second
tBodyGyro-mean()-Z	mean value of Axial Z on tBodyGyro	unit: radians/second
tBodyGyroJerk-mean()-X	mean value of Axial X on tBodyGyroJerk	unit: radians/second
tBodyGyroJerk-mean()-Y	mean value of Axial Y on tBodyGyroJerk	unit: radians/second
tBodyGyroJerk-mean()-Z	mean value of Axial Z on tBodyGyroJerk	unit: radians/second
tBodyAccMag-mean()	mean value on tBodyAccMag	unit: g
tGravityAccMag-mean()	mean value on tGravityAccMag	unit: g
tBodyAccJerkMag-mean()	mean value on tBodyAccJerkMag	unit: g
tBodyGyroMag-mean()	mean value on tBodyGyroMag	unit: radians/second
tBodyGyroJerkMag-mean()	mean value on tBodyGyroJerkMag	unit: radians/second
fBodyAcc-mean()-X	mean value of Axial X on fBodyAcc	unit: g
fBodyAcc-mean()-Y	mean value of Axial Y on fBodyAcc	unit: g
fBodyAcc-mean()-Z	mean value of Axial Z on fBodyAcc	unit: g
fBodyAcc-meanFreq()-X		

	mean value of requencey of Axial X on fBodyAcc	
		unit: g
fBodyAcc-meanFreq()-Y	mean value of requencey of Axial Y on fBodyAcc	
		unit: g
fBodyAcc-meanFreq()-Z	mean value of requencey of Axial Z on fBodyAcc	
		unit: g
fBodyAccJerk-mean()-X	mean value of Axial X on fBodyAccJerk	
		unit: g
fBodyAccJerk-mean()-Y	mean value of Axial Y on fBodyAccJerk	
		unit: g
fBodyAccJerk-mean()-Z	mean value of Axial Z on fBodyAccJerk	
		unit: g
fBodyAccJerk-meanFreq()-X	mean value of requencey of Axial X on fBodyAccJerk	
		unit: g
fBodyAccJerk-meanFreq()-Y	mean value of requencey of Axial Y on fBodyAccJerk	
		unit: g
fBodyAccJerk-meanFreq()-Z	mean value of requencey of Axial Z on fBodyAccJerk	
		unit: g
fBodyGyro-mean()-X	mean value of Axial X on fBodyGyro	
		unit: radians/second
fBodyGyro-mean()-Y	mean value of Axial Y on fBodyGyro	
		unit: radians/second
fBodyGyro-mean()-Z	mean value of Axial Z on fBodyGyro	
		unit: radians/second
fBodyGyro-meanFreq()-X	mean value of requencey of Axial X on fBodyGyro	
		unit: radians/second
fBodyGyro-meanFreq()-Y	mean value of requencey of Axial Y on fBodyGyro	
		unit: radians/second
fBodyGyro-meanFreq()-Z	mean value of requencey of Axial Z on fBodyGyro	
		unit: radians/second
fBodyAccMag-mean()	mean value on fBodyAccMag	
		unit: g
fBodyAccMag-meanFreq()	mean value of requencey on fBodyAccMag	
		unit: g
fBodyBodyAccJerkMag-mean()	mean value on fBodyBodyAccJerkMag	
		unit: g
fBodyBodyAccJerkMag-meanFreq()	mean value of requencey on fBodyBodyAccJerkMag	
		unit: g
fBodyBodyGyroMag-mean()	mean value on fBodyBodyGyroMag	
		unit: radians/second

fBodyBodyGyroMag-meanFreq()	mean value of requency on fBodyBodyGyroMag	unit: radians/second
fBodyBodyGyroJerkMag-mean()	mean value on fBodyBodyGyroJerkMag	unit: radians/second
fBodyBodyGyroJerkMag-meanFreq()	mean value of requency on fBodyBodyGyroJerkMag	unit: radians/second
tBodyAcc-std()-X	std value of Axial X on tBodyAcc	unit: g
tBodyAcc-std()-Y	std value of Axial Y on tBodyAcc	unit: g
tBodyAcc-std()-Z	std value of Axial Z on tBodyAcc	unit: g
tGravityAcc-std()-X	std value of Axial X on tGravityAcc	unit: g
tGravityAcc-std()-Y	std value of Axial Y on tGravityAcc	unit: g
tGravityAcc-std()-Z	std value of Axial Z on tGravityAcc	unit: g
tBodyAccJerk-std()-X	std value of Axial X on tBodyAccJerk	unit: g
tBodyAccJerk-std()-Y	std value of Axial Y on tBodyAccJerk	unit: g
tBodyAccJerk-std()-Z	std value of Axial Z on tBodyAccJerk	unit: g
tBodyGyro-std()-X	std value of Axial X on tBodyGyro	unit: radians/second
tBodyGyro-std()-Y	std value of Axial Y on tBodyGyro	unit: radians/second
tBodyGyro-std()-Z	std value of Axial Z on tBodyGyro	unit: radians/second
tBodyGyroJerk-std()-X	std value of Axial X on tBodyGyroJerk	unit: radians/second
tBodyGyroJerk-std()-Y	std value of Axial Y on tBodyGyroJerk	unit: radians/second
tBodyGyroJerk-std()-Z	std value of Axial Z on tBodyGyroJerk	unit: radians/second
tBodyAccMag-std()	std value on tBodyAccMag	unit: g
tGravityAccMag-std()	std value on tGravityAccMag	

tBodyAccJerkMag-std()	std value on tBodyAccJerkMag	unit: g
tBodyGyroMag-std()	std value on tBodyGyroMag	unit: g
tBodyGyroJerkMag-std()	std value on tBodyGyroJerkMag	unit: radians/second
fBodyAcc-std()-X	std value of Axial X on fBodyAcc	unit: radians/second
fBodyAcc-std()-Y	std value of Axial Y on fBodyAcc	unit: g
fBodyAcc-std()-Z	std value of Axial Z on fBodyAcc	unit: g
fBodyAccJerk-std()-X	std value of Axial X on fBodyAccJerk	unit: g
fBodyAccJerk-std()-Y	std value of Axial Y on fBodyAccJerk	unit: g
fBodyAccJerk-std()-Z	std value of Axial Z on fBodyAccJerk	unit: g
fBodyGyro-std()-X	std value of Axial X on fBodyGyro	unit: radians/second
fBodyGyro-std()-Y	std value of Axial Y on fBodyGyro	unit: radians/second
fBodyGyro-std()-Z	std value of Axial Z on fBodyGyro	unit: radians/second
fBodyAccMag-std()	std value on fBodyAccMag	unit: radians/second
fBodyBodyAccJerkMag-std()	std value on fBodyBodyAccJerkMag	unit: g
fBodyBodyGyroMag-std()	std value on fBodyBodyGyroMag	unit: g
fBodyBodyGyroJerkMag-std()	std value on fBodyBodyGyroJerkMag	unit: radians/second
		unit: radians/second