Code Book

"Getting and Cleaning Data" course project

As at 25 April 2015

Column number	Column name	Type	Description	Possible Values
1	activityName	character	Description of the activity being carried out by the test subject	WALKING WALKING_UPSTAIRS WALKING_DOWNSTAIRS SITTING STANDING LAYING
2	subject	integer	Identifies the test subject, i.e. the person carrying out the activity	1-30
3	tBodyAccMeanX	numeric	Mean measurement of acceleration due to body movement in the x-dimension	
4	tBodyAccMeanY	numeric	Mean measurement of acceleration due to body movement in the y-dimension	
5	tBodyAccMeanZ	numeric	Mean measurement of acceleration due to body movement in the z-dimension	
6	tBodyAccStdX	numeric	Standard deviation of measurements of acceleration due to body movement in the x-dimension	
7	tBodyAccStdY	numeric	Standard deviation of measurements of acceleration due to body movement in the y-dimension	
8	tBodyAccStdZ	numeric	Standard deviation of measurements of acceleration due to body movement in the z-dimension	
9	tGravityAccMeanX	numeric	Mean measurement of acceleration due to gravity in the x-dimension	
10	tGravityAccMeanY	numeric	Mean measurement of acceleration due to gravity in the y-dimension	
11	tGravityAccMeanZ	numeric	Mean measurement of acceleration due to gravity in the z-dimension	
12	tGravityAccStdX	numeric	Standard deviation of measurements of acceleration due to gravity in the x-dimension	
13	tGravityAccStdY	numeric	Standard deviation of measurements of acceleration due to gravity in the y-dimension	
14	tGravityAccStdZ	numeric	Standard deviation of measurements of acceleration due to gravity in the z-dimension	
15	tBodyAccJerkMeanX	numeric	Mean measurement of acceleration due to body jerk movement in the x-dimension	
16	tBodyAccJerkMeanY	numeric	Mean measurement of acceleration due to body jerk movement in the y-dimension	
17	tBodyAccJerkMeanZ	numeric	Mean measurement of acceleration due to body jerk movement in the z-dimension	
18	tBodyAccJerkStdX	numeric	Standard deviation of measurements of acceleration due to body jerk movement in the x-dimension	
19	tBodyAccJerkStdY	numeric	Standard deviation of measurements of acceleration due to body jerk movement in the y-dimension	
20	tBodyAccJerkStdZ	numeric	Standard deviation of measurements of acceleration due to body jerk movement in the z-	

Column number	Column name	Type	Description	Possible Values
			dimension	
21	tBodyGyroMeanX	numeric	Mean measurement of acceleration due to body gyro movement in the x-dimension	
22	tBodyGyroMeanY	numeric	Mean measurement of acceleration due to body gyro movement in the y-dimension	
23	tBodyGyroMeanZ	numeric	Mean measurement of acceleration due to body gyro movement in the z-dimension	
24	tBodyGyroStdX	numeric	Standard deviation of measurements of acceleration due to body gyro movement in the x-dimension	
25	tBodyGyroStdY	numeric	Standard deviation of measurements of acceleration due to body gyro movement in the y-dimension	
26	tBodyGyroStdZ	numeric	Standard deviation of measurements of acceleration due to body gyro movement in the z-dimension	
27	tBodyGyroJerkMeanX	numeric	Mean measurement of acceleration due to body gyro jerk movement in the x-dimension	
28	tBodyGyroJerkMeanY	numeric	Mean measurement of acceleration due to body gyro jerk movement in the y-dimension	
29	tBodyGyroJerkMeanZ	numeric	Mean measurement of acceleration due to body gyro jerk movement in the z-dimension	
30	tBodyGyroJerkStdX	numeric	Standard deviation of measurements of acceleration due to body gyro jerk movement in the x-dimension	
31	tBodyGyroJerkStdY	numeric	Standard deviation of measurements of acceleration due to body gyro jerk movement in the y-dimension	
32	tBodyGyroJerkStdZ	numeric	Standard deviation of measurements of acceleration due to body gyro jerk movement in the z-dimension	
33	tBodyAccMagMean	numeric	Mean magnitude of signal of acceleration due to body movement	
34	tBodyAccMagStd	numeric	Standard deviation of magnitude of signal of acceleration due to body movement	
35	tGravityAccMagMean	numeric	Mean magnitude of signal of acceleration due to gravity	
36	tGravityAccMagStd	numeric	Standard deviation of magnitude of signal of acceleration due to gravity	
37	tBodyAccJerkMagMean	numeric	Mean magnitude of signal of acceleration due to body jerk movement	
38	tBodyAccJerkMagStd	numeric	Standard deviation of magnitude of signal of acceleration due to body jerk movement	
39	tBodyGyroMagMean	numeric	Mean magnitude of signal of acceleration due to body gyro movement	
40	tBodyGyroMagStd	numeric	Standard deviation of magnitude of signal of acceleration due to body gyro movement	
41	tBodyGyroJerkMagMean	numeric	Mean signal of acceleration due to body gyro jerk movement	
42	tBodyGyroJerkMagStd	numeric	Standard deviation of signal of acceleration due to body gyro jerk movement	
43	fBodyAccMeanX	numeric	Mean Fast Fourier Transform of acceleration due to body movement in the x-dimension	
44	fBodyAccMeanY	numeric	Mean Fast Fourier Transform of acceleration due to body movement in the y-dimension	
45	fBodyAccMeanZ	numeric	Mean Fast Fourier Transform of acceleration due to body movement in the z-dimension	
46	fBodyAccStdX	numeric	Standard deviation of Fast Fourier Transform of acceleration due to body movement in the x-dimension	
47	fBodyAccStdY	numeric	Standard deviation of Fast Fourier Transform of acceleration due to body movement in the y-dimension	
48	fBodyAccStdZ	numeric	Standard deviation of Fast Fourier Transform of acceleration due to body movement in the z-	

Column number	Column name	Type	Description	Possible Values
			dimension	
49	fBodyAccJerkMeanX	numeric	Mean Fast Fourier Transform of acceleration due to body jerk movement in the x-dimension	
50	fBodyAccJerkMeanY	numeric	Mean Fast Fourier Transform of acceleration due to body jerk movement in the y-dimension	
51	fBodyAccJerkMeanZ	numeric	Mean Fast Fourier Transform of acceleration due to body jerk movement in the z-dimension	
52	fBodyAccJerkStdX	numeric	Standard deviation of Fast Fourier Transform of acceleration due to body jerk movement in the x-dimension	
53	fBodyAccJerkStdY	numeric	Standard deviation of Fast Fourier Transform of acceleration due to body jerk movement in the y-dimension	
54	fBodyAccJerkStdZ	numeric	Standard deviation of Fast Fourier Transform of acceleration due to body jerk movement in the z-dimension	
55	fBodyGyroMeanX	numeric	Mean Fast Fourier Transform of acceleration due to body gyro movement in the x-dimension	
56	fBodyGyroMeanY	numeric	Mean Fast Fourier Transform of acceleration due to body gyro movement in the y-dimension	
57	fBodyGyroMeanZ	numeric	Mean Fast Fourier Transform of acceleration due to body gyro movement in the z-dimension	
58	fBodyGyroStdX	numeric	Standard deviation of Fast Fourier Transform of acceleration due to body gyro movement in the x-dimension	
59	fBodyGyroStdY	numeric	Standard deviation of Fast Fourier Transform of acceleration due to body gyro movement in the y-dimension	
60	fBodyGyroStdZ	numeric	Standard deviation of Fast Fourier Transform of acceleration due to body gyro movement in the z-dimension	
61	fBodyAccMagMean	numeric	Mean FFT of signal of acceleration due to body movement	
62	fBodyAccMagStd	numeric	Standard deviation of FFT of signal of acceleration due to body movement	
63	fBodyAccJerkMagMean	numeric	Mean FFT of signal of acceleration due to body jerk movement	
64	fBodyAccJerkMagStd	numeric	Standard deviation of FFT of signal of acceleration due to body jerk movement	
65	fBodyGyroMagMean	numeric	Mean FFT of signal of acceleration due to body gyro movement	
66	fBodyGyroMagStd	numeric	Standard deviation of FFT of signal of acceleration due to body gyro movement	
67	fBodyGyroJerkMagMean	numeric	Mean signal of acceleration due to body gyro jerk movement	
68	fBodyGyroJerkMagStd	numeric	Standard deviation of signal of acceleration due to body gyro jerk movement	