

## CODE BOOK FOR DATASET (FROM OUTPUT\_DS.TXT)

experiment_id	integer
Identifies the experiment that was conducted	
subject_id	integer
Identifies the subject of the experiment	
activity_name	factor
Identifies the activity that the subject was performing in the experiment <ul style="list-style-type: none"> <li>• WALKING</li> <li>• WALKING_UPSTAIRS</li> <li>• WALKING_DOWNSTAIRS</li> <li>• SITTING</li> <li>• STANDING</li> <li>• LAYING</li> </ul>	
variable	factor
Describes the signal that was measured by the accelerometer and gyroscope and the estimated statistic that was derived: <ul style="list-style-type: none"> <li>a) &lt;t/f&gt;BodyAcc_&lt;mean/std&gt;_&lt;X/Y/Z&gt; Mean/standard deviation of the time/frequency domain signals from the accelerometer in the X/Y/Z direction</li> <li>b) &lt;t/f&gt;GravityAcc_&lt;mean/std&gt;_&lt;X/Y/Z&gt; Mean/standard deviation of the time/frequency domain signals for gravity acceleration in the X/Y/Z direction</li> <li>c) &lt;t/f&gt;BodyAccJerk_&lt;mean/std&gt;_&lt;X/Y/Z&gt; Mean/standard deviation of the time/frequency domain signals for the jerk signals of body acceleration in the X/Y/Z direction</li> <li>d) &lt;t/f&gt;BodyGyro_&lt;mean/std&gt;_&lt;X/Y/Z&gt; Mean/standard deviation of the time/frequency domain signals from the gyroscope in the X/Y/Z direction</li> </ul>	

- e)  $\langle \text{BodyGyroJerk} \rangle_{\text{mean/std}} \langle X/Y/Z \rangle$   
Mean/standard deviation of the time/frequency domain signals for the jerk signals from the gyroscope in the X/Y/Z direction
- f)  $\langle \text{BodyAccMag} \rangle_{\text{mean/std}} \langle X/Y/Z \rangle$   
Mean/standard deviation of the time/frequency domain signals from the accelerometer in the X/Y/Z direction using the Euclidean norm
- g)  $\langle \text{GravityAccMag} \rangle_{\text{mean/std}} \langle X/Y/Z \rangle$   
Mean/standard deviation of the time/frequency domain signals for gravity acceleration in the X/Y/Z direction using the Euclidean norm
- h)  $\langle \text{BodyAccJerkMag} \rangle_{\text{mean/std}} \langle X/Y/Z \rangle$   
Mean/standard deviation of the time/frequency domain signals for the jerk signals of body acceleration in the X/Y/Z direction using the Euclidean norm
- i)  $\langle \text{BodyGyroMag} \rangle_{\text{mean/std}} \langle X/Y/Z \rangle$   
Mean/standard deviation of the time/frequency domain signals from the gyroscope in the X/Y/Z direction using the Euclidean norm
- j)  $\langle \text{BodyGyroJerkMag} \rangle_{\text{mean/std}} \langle X/Y/Z \rangle$   
Mean/standard deviation of the time/frequency domain signals for the jerk signals from the gyroscope in the X/Y/Z direction using the Euclidean norm

value	numeric
Magnitude of the signal that was observed in the experiment	