**CodeBook**

This is a code book that describes the variables, the data, and any transformations or work that you performed to clean up the data.

**Data**

Data for the project:

<https://d396qusza40orc.cloudfront.net/getdata%2Fprojectfiles%2FUCI%20HAR%20Dataset.zip>

**Dataset**

The dataset includes the following files:

* 'features\_info.txt': Shows information about the variables used on the feature vector.
* 'features.txt': List of all features.
* 'activity\_labels.txt': Links the class labels with their activity name.
* 'train/X\_train.txt': Training set.
* 'train/y\_train.txt': Training labels.
* 'test/X\_test.txt': Test set.
* 'test/y\_test.txt': Test labels.

The following files are available for the train and test data. Their descriptions are equivalent.

- 'train/subject\_train.txt': Each row identifies the subject who performed the activity for each window sample. Its range is from 1 to 30.

- 'train/Inertial Signals/total\_acc\_x\_train.txt': The acceleration signal from the smartphone accelerometer X axis in standard gravity units 'g'. Every row shows a 128 element vector. The same description applies for the 'total\_acc\_x\_train.txt' and 'total\_acc\_z\_train.txt' files for the Y and Z axis.

- 'train/Inertial Signals/body\_acc\_x\_train.txt': The body acceleration signal obtained by subtracting the gravity from the total acceleration.

- 'train/Inertial Signals/body\_gyro\_x\_train.txt': The angular velocity vector measured by the gyroscope for each window sample. The units are radians/second.