# C&T data: Week 4 assignment – wearables

The following describes the steps and datasets taken/used to produce the final averaged estimates per subject and activity.

1. Save data folder to UCI HAR Dataset folder.
2. Load all .txt files from the root, test, and training folders
   1. “features” dataset extracts the names of the metrics measured by the wearables
   2. “activities” contains the activity performed by the subjects
   3. “subject\_test” contains the values assigned to each subject for the test set
   4. “x\_test” contains the measures per the features metrics
   5. “y\_test” contains the activity codes performed for the measures in x\_test
   6. “subject\_train” contains the values assigned to each subject for the training set
   7. “x\_train” contains the measures per the features metrics
   8. “y\_train” contains the activity codes performed for the measures in x\_train
3. Merge the test and training sets into one dataset
   1. Bind rows from x\_test and x\_train as x, and repeat for y\_test and y\_train as y
   2. Bind rows from subject\_test and subject\_train
   3. Merge sets from (b) to y and x as all\_data
4. Extract only measurements on mean and standard deviation from all\_data as all\_mean\_std
5. Describe activity names more explicitly
6. Extract averages per grouped subject and activity pairs as averages.