

## **Codebook**

- Load library plyr
- Check working directory, then set to "....../getdata\_projectfiles\_UCI HAR Dataset/UCI HAR Dataset"
- Extract test features , then rename column names
- Extract test activity labels, then rename column names
- Extract test datasets, then set column name programmatically as features
- Combine test subject, activity label, and X dataset into single test data frame
- Extract train features, then rename column names
- Extract train activity labels, then rename column names
- Extract train datasets, then set column name programmatically as features
- Combine train subject, activity label, and X dataset into single train data frame
- Assignment STEP 1: Merges the training and the test sets to create one data set
- Obtain list of columns which include mean or std as part of names.
- Also include the subject and activity label columns on the left
- Assignment STEP 2: Extracts only the measurements on the mean and standard deviation for each measurement
- Assignment STEP 3: Uses descriptive activity names to name the activities in the data set
- Assignment STEP 4: Appropriately labels the data set with descriptive variable names
- Set subject and activity as factor
- Assignment STEP 5: From the data set in step 4, creates a second, independent tidy data set with the average of each variable for each activity and each subject
- Write tidy data result into CSV file

Thank you!