**Introduction**

The script run\_analysis.Rperforms the below steps described in the course project's definition.

* First training and test tables are read, feature vector and the activity labels are read.
* The datasets are then merged.
* Then, only those columns with the mean and standard deviation measures are taken from the whole dataset. After extracting these columns, they are given the correct names, taken from features.txt.
* As activity data is addressed with values 1:6, we take the activity names and IDs from activity\_labels.txt and they are substituted in the dataset.
* On the whole dataset, those columns with vague column names are corrected.
* Finally, we generate a new dataset with all the average measures for each subject and activity type (30 subjects \* 6 activities = 180 rows). The output file is called TidySet.txt, and uploaded to this repository.

**Variables**

* x\_train, y\_train, x\_test, y\_test, subject\_train and subject\_test contain the data from the downloaded files.
* Mrg\_train and mrg\_test merge the previous datasets to further analysis.
* features contain the correct names for the x\_data dataset, which are applied to the column names stored in mean\_and\_std\_features, a numeric vector used to extract the desired data.
* A similar approach is taken with activity names through the activities variable.
* setAllinOne merges x\_data, y\_data and subject\_data in a big dataset.
* Finally, secTidySet contains the relevant averages which will be later stored in a .txt file.