README

The script run\_analys.R can be run by simply calling: generateTidyDataset(). This will produce the tidy dataset in the running directory. The output file is tidyDataset.txt. It’s a text file and it’s separator is “;”

How the script works:

It begins by merging “vertically” the Train and Test datasets. That means, merging:

* X\_test with X\_train
* Y\_test with y\_train
* Subject\_test with subject\_train

It’s mergeTrainAndTest() that does all these merges.

After obtaining these 3 datasets, mergeTrainAndTest() does the following:

1. It strips off every column from the Main dataset (the one with 561 columns) that is not related to “mean” or “std”
2. It calls getHorizontalMergeDf() to merge the 3 datasets into one. This last one containing Subject, Activity and all the measures

In order to obtain the tidy dataset, we can call getTidyDataSet() passing as a parameter the dataset obtained from mergeTrainAndTest() function. getTidyDataSet() renames all the measure columns by prefixing them with “AVG\_”. It’s output is a text file (tidyDataSet.txt) containing 180 rows (30 subjects \* 6 activities)

If you are only interested in the final result, you can simply call generateTidyDataset().and check for the tidyDataset.txt file. It’s separator is: “;”.