

README

Mark Edney

19/09/2020

```
{r setup, include=FALSE} knitr::opts_chunk$set(echo = TRUE)
```

R Code

The run_analysis code follows this procedure:

1. Load the dplyr packages
2. Load the different datafiles into the system as dataframes
3. Merge the train and test dataframes together
4. Load the featurelist and activity labels into the system as dataframes
5. Merge the activity list for the train and test data
6. Sort the merged data from for variables that only include std and mean
7. Change the variables of the merged data with the featurelist df
8. Amends the activity data to the merged data with mutate and changes the activity to the description with the activity label df
9. Amends the subject data to the merged df
10. Creates a second df grouped by activity and then by subject
11. Summarise the second df with the summarise_all by mean

Code book

train_x- data from the training group
train_y- activity data for the training group
test_x- data from the test group
test_y- activity data for the test group
subject_train- subject data for the training group
subject_test- subject data for the test group
datamerge- the merged data frame
featurelist- labels for the feature data
activitylabel- labels for the activity data
activity- merged activity data
sortfeatures- logical vector for sorting df by std and mean
datasecond- second dataframe grouped by activity and subject and summarised