

RStudio

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Go to file/function

run\_analysis.R x averageClearedData x

Source on Save Run Source

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1 ## Getting and Cleaning Data Course Project
2 ## Anahita Saghaei 25/05/2014
3
4
5 ##You should create one R script called run_analysis.R that does the following.
6 ##Merges the training and the test sets to create one data set.
7 ##Extracts only the measurements on the mean and standard deviation for each measurem
8 ##Uses descriptive activity names to name the activities in the data set
9 ##Appropriately labels the data set with descriptive activity names.
10 ##Creates a second, independent tidy data set with the average of each variable for ea
11 ##Good luck!
12
13 ##Set working directory and check it
14 setwd("C:\\Users\\anahita\\Documents\\coursera\\Getting and Cleaning Data\\getdata-pro
15 getwd()
16
17 ##Read "features.txt" and save as "Features" with column names "FeatureId and FeatureNa
18 Features <- read.table("../features.txt", sep=" ", header=FALSE, col.names=c("FeatureId",
19
20 ##Read test set data(X_test.txt), and use FeatureName for column names
21 testData <- read.table("../test\\X_test.txt", sep=" ", header=FALSE, col.names=Features$
22
23 ##Read test activity labels (y_test.txt) and use "ActivityLabelID" for column names
24 testActivityLabels <- read.table("../test\\y_test.txt", sep=" ", header=FALSE, col.names
25
26 ##Read test subjects (subject_test.txt) and use subjectID for column names
27 testSubjects <- read.table("../test\\subject_test.txt", sep=" ", header=FALSE, col.names
28 testActivityLabels <- read.table("../test\\y_test.txt", sep=" ", header=FALSE, col.names
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30
31 ##Read train set data(X_train.txt), and use FeatureName for column names
32 trainData <- read.table("../train\\X_train.txt", sep=" ", header=FALSE, col.names=Featur
33
34 ##Read train activity labels (y_train.txt) and use "ActivityLabelID" for column names
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Environment History

Global Environment

Data

- ActivityLabelName.6 obs. of 2 variables
- AverageMergedSubS.180 obs. of 68 variables
- Features 561 obs. of 2 variables
- averageClearedDat.180 obs. of 68 variables
- mergedSetActivity.10299 obs. of 1 variables
- mergedSetData 10299 obs. of 561 variables
- mergedSetSubjects 10299 obs. of 1 variables
- mergedSubsetData 10299 obs. of 68 variables
- mergedSubsetDataT.10299 obs. of 68 variables
- testActivityLabel.2947 obs. of 1 variables
- testData 2947 obs. of 561 variables
- testSubjects 2947 obs. of 1 variables

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- .Rhistory 15.2 KB May 23, 2014, 7:52 PM
- activity\_labels.txt 80 B May 5, 2014, 5:40 PM
- averageClearedData.txt 220 KB May 25, 2014, 1:23 AM
- features.txt 15.4 KB May 5, 2014, 5:40 PM
- features\_info.txt 2.7 KB May 5, 2014, 5:40 PM
- mergedSubSetData.txt 8 MB May 25, 2014, 1:23 AM
- README.txt 4.3 KB May 5, 2014, 5:40 PM
- test
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Console

101:25 25/05/2014

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180 observations of 68 variables

	SubjectID	ActivityLabelName	tBodyAcc.mean...X	tBodyAcc.mean...Y	tBodyAcc.mean...Z	tBodyAcc.std...X	tBodyAcc.std...Y	tBodyAcc.std...Z
1	1	standing	0.2789176	-0.016137590	-0.11860182	-0.595759902	-0.5731900	
2	1	sitting	0.2612376	-0.001308288	-0.10454418	-0.577229008	-0.5226186	
3	1	laying	0.2215982	-0.040513953	-0.11320355	-0.520856469	-0.8368274	
4	1	walking	0.2773308	-0.017383819	-0.11114810	-0.283740259	0.11446133	
5	1	walkingdownstairs	0.2891883	-0.009918505	-0.10756619	0.030035338	-0.0319359	
6	1	walkingupstairs	0.2554617	-0.023953149	-0.09730200	-0.354708025	-0.0023202	
7	2	standing	0.2779115	-0.018420827	-0.10590854	-0.587271889	-0.9573049	
8	2	sitting	0.2770874	-0.015687994	-0.10921827	-0.586822280	-0.9507044	
9	2	laying	0.2813734	-0.018158740	-0.10724561	-0.574085465	-0.9082773	
10	2	walking	0.2764266	-0.018594920	-0.10550036	-0.423642838	-0.0780912	
11	2	walkingdownstairs	0.2776153	-0.022661416	-0.11681294	0.046366681	0.26288178	
12	2	walkingupstairs	0.2471648	-0.021412113	-0.15251390	-0.304376406	0.10802728	
13	3	standing	0.2800465	-0.014337656	-0.10162172	-0.566742543	-0.8934493	
14	3	sitting	0.2571976	-0.003502998	-0.09835792	-0.571010121	-0.8566178	
15	3	laying	0.2755169	-0.018955679	-0.10130048	-0.582776639	-0.9620575	
16	3	walking	0.2755675	-0.017176784	-0.11267486	-0.360356726	-0.06099140	
17	3	walkingdownstairs	0.2924235	-0.019355408	-0.11613984	-0.057410048	-0.0331503	
18	3	walkingupstairs	0.2608199	-0.032410941	-0.11006486	-0.313123438	0.01162088	
19	4	standing	0.2804997	-0.009489111	-0.09615749	-0.576920580	-0.8615973	
20	4	sitting	0.2715383	-0.007163065	-0.10587460	-0.580309991	-0.8902129	
21	4	laying	0.2635592	-0.015003184	-0.11068815	-0.354193739	-0.9417140	
22	4	walking	0.2785820	-0.014839948	-0.11140306	-0.440829971	-0.0788267	
23	4	walkingdownstairs	0.2799653	-0.009802009	-0.10677752	0.011193550	-0.2185983	
24	4	walkingupstairs	0.2708767	-0.031900430	-0.11421946	-0.204933043	-0.0666899	
25	5	standing	0.2825444	-0.007004106	-0.10217110	-0.568591816	-0.8694399	

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