CodeBook for Week 4 Peer-Reviwed Assignment

Vincent Wysocki

4/11/2021

Variable Disciption

The variables presented are the mean and standard deviation values calculated from an accelerometer and 3-axial gyroscope measurements. This final dataset contains the merged values of two original datasets. The original datasets contained the same measurement variables, however, these measurements were taken at different times. See the Readme.txt for a full description of raw measurements and subsequent signal processing.

Cleaning and Tidying

1) Text files were read into R Tables from R's WD

2) Columns were given names in association with their appropriate activity

3) A logic statement(s) was were used to filter the "Mean" and "Std" columns. Specifically, the logical statement selected columns with "mean" or "std". The string "Freq" was used to reject the "meanFreq()in the dataset".

4) The returned index was used to extract the "Mean" and "Std" columns

5) The test and training data-frames with selected columns were merged into one data-frame

6) "lapply" was used to take the mean of all columns in the merged data-frame

7) Activity names were assigned to appropriate "Mean" and "Std" rows

8) The final data-frame's columns were given appropriate titles