Code Book

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Data Dictionary for data set "tidy_data"

The following data set variable list has been developed in conformity with the bullet point 4 of the assignment for the course "Getting and cleaning data"

Variables List

Phase

This variable determines the partitioning of the experiment according two phases identified with the keywords 'training' and 'test'

Type: character

- 1. training
- 2. test

Subject

A number identifying the specific vounteer who take part to the experiment Type: integer

1. 1..30

Activity

Human activity recognition, that are described according the following values:

Type: character

- 1. WALKING
- 2. WALKING USPSTAIRS
- 3. WALKING DOWNSTAIRS
- 4. SITTING
- 5. STANDING
- 6. LAYING

Note: all the following variables have the same common characteristics:

Type: numeric with range bounded in [-1, 1]

tBodyAccmeanX

mean of the body acceleration in the X direction measured in standard gravity units g

tBodyAccmeanY

mean of the body acceleration in the Y direction measured in standard gravity units g

tBodyAccmeanZ

mean of the body acceleration in the Z direction measured in standard gravity units g

tBodyAccstdX

standard deviation of the body acceleration in the X direction measured in standard gravity units g tBodyAccstdY

standard deviation of the body acceleration in the Y direction measured in standard gravity units g tBodyAccstdZ

standard deviation of the body acceleration in the Z direction measured in standard gravity units g tBodyAccMagmean

mean of the body acceleration module magnitude measured in standard gravity units g tBodyAccMagstd

standard deviation of the body acceleration module magnitude measured in standard gravity units g

Data Dictionary for data set "sum_data"

The following data set variable list has been developed in conformity with the bullet point 5 of the assignment for the course "Getting and cleaning data".

It is derived from the above data set "tidy_data" summarizing all measures making the average of each acceleration variable for each activity and each subject.

Variables List

Activity

Human activity recognition are described according the following values:

Type: character

- 1. WALKING
- 2. WALKING USPSTAIRS
- 3. WALKING DOWNSTAIRS
- 4. SITTING
- 5. STANDING
- 6. LAYING

Subject

A number identifying the specific vounteer who take part to the experiment Type: integer

Type. mees

1. 1..30

Note: all the following variables have the same common characteristics:

Type: numeric with range bounded in [-1, 1]

tBodyAccmeanX avg

average of the mean of the body acceleration in the X direction measured in standard gravity units g $tBodyAccmeanY_avg$

average of the mean of the body acceleration in the Y direction measured in standard gravity units g tBodyAccmeanZ avg

average of the mean of the body acceleration in the Z direction measured in standard gravity units g tBodyAccstdX avg

average of the standard deviation of the body acceleration in the X direction measured in standard gravity units g

tBodyAccstdY_avg

average of the standard deviation of the body acceleration in the Y direction measured in standard gravity units g

tBodyAccstdZ_avg

average of the standard deviation of the body acceleration in the Z direction measured in standard gravity units g

$tBodyAccMagmean_avg\\$

average of the mean of the body acceleration module magnitude measured in standard gravity units g $tBodyAccMagstd_avg$

average of the standard deviation of the body acceleration module magnitude measured in standard gravity units g