

## DATA DICTIONARY – SAMSUNG S2

### Features

Content: Shows information about the variables used on the feature vector.

Record Type

Feature Id

Feature Name

Below, I show a sample of the first 50 records

1	tBodyAcc-mean()-X	11	tBodyAcc-max()-Y	21	tBodyAcc-iqr()-Y	31	tBodyAcc-arCoeff()-Y,2	41	tGravityAcc-mean()-X
2	tBodyAcc-mean()-Y	12	tBodyAcc-max()-Z	22	tBodyAcc-iqr()-Z	32	tBodyAcc-arCoeff()-Y,3	42	tGravityAcc-mean()-Y
3	tBodyAcc-mean()-Z	13	tBodyAcc-min()-X	23	tBodyAcc-entropy()-X	33	tBodyAcc-arCoeff()-Y,4	43	tGravityAcc-mean()-Z
4	tBodyAcc-std()-X	14	tBodyAcc-min()-Y	24	tBodyAcc-entropy()-Y	34	tBodyAcc-arCoeff()-Z,1	44	tGravityAcc-std()-X
5	tBodyAcc-std()-Y	15	tBodyAcc-min()-Z	25	tBodyAcc-entropy()-Z	35	tBodyAcc-arCoeff()-Z,2	45	tGravityAcc-std()-Y
6	tBodyAcc-std()-Z	16	tBodyAcc-sma()	26	tBodyAcc-arCoeff()-X,1	36	tBodyAcc-arCoeff()-Z,3	46	tGravityAcc-std()-Z
7	tBodyAcc-mad()-X	17	tBodyAcc-energy()-X	27	tBodyAcc-arCoeff()-X,2	37	tBodyAcc-arCoeff()-Z,4	47	tGravityAcc-mad()-X
8	tBodyAcc-mad()-Y	18	tBodyAcc-energy()-Y	28	tBodyAcc-arCoeff()-X,3	38	tBodyAcc-correlation()-X,Y	48	tGravityAcc-mad()-Y
9	tBodyAcc-mad()-Z	19	tBodyAcc-energy()-Z	29	tBodyAcc-arCoeff()-X,4	39	tBodyAcc-correlation()-X,Z	49	tGravityAcc-mad()-Z
10	tBodyAcc-max()-X	20	tBodyAcc-iqr()-X	30	tBodyAcc-arCoeff()-Y,1	40	tBodyAcc-correlation()-Y,Z	50	tGravityAcc-max()-X

### activity\_labels

Content: Shows information about the 6 activities performed in the test.

Record Type

Activity Id

Activity Name

1	WALKING
2	WALKING_UPSTAIRS
3	WALKING_DOWNSTAIRS
4	SITTING
5	STANDING
6	LAYING

## X\_test, X\_train

Content: Shows information about the activity measurements taken by the people who performed the test (9 people) and by the ones who performed the train (21 people).

### Record Type

[1] "tBodyAcc-mean()-X"	"tBodyAcc-mean()-Y"
[3] "tBodyAcc-mean()-Z"	"tBodyAcc-std()-X"
[5] "tBodyAcc-std()-Y"	"tBodyAcc-std()-Z"
[7] "tBodyAcc-mad()-X"	"tBodyAcc-mad()-Y"
[9] "tBodyAcc-mad()-Z"	"tBodyAcc-max()-X"
[11] "tBodyAcc-max()-Y"	"tBodyAcc-max()-Z"
[13] "tBodyAcc-min()-X"	"tBodyAcc-min()-Y"
[15] "tBodyAcc-min()-Z"	"tBodyAcc-sma()"
[17] "tBodyAcc-energy()-X"	"tBodyAcc-energy()-Y"
[19] "tBodyAcc-energy()-Z"	"tBodyAcc-iqr()-X"
[21] "tBodyAcc-iqr()-Y"	"tBodyAcc-iqr()-Z"
[23] "tBodyAcc-entropy()-X"	"tBodyAcc-entropy()-Y"
[25] "tBodyAcc-entropy()-Z"	"tBodyAcc-arCoeff()-X,1"
[27] "tBodyAcc-arCoeff()-X,2"	"tBodyAcc-arCoeff()-X,3"
[29] "tBodyAcc-arCoeff()-X,4"	"tBodyAcc-arCoeff()-Y,1"
[31] "tBodyAcc-arCoeff()-Y,2"	"tBodyAcc-arCoeff()-Y,3"
[33] "tBodyAcc-arCoeff()-Y,4"	"tBodyAcc-arCoeff()-Z,1"
[35] "tBodyAcc-arCoeff()-Z,2"	"tBodyAcc-arCoeff()-Z,3"
[37] "tBodyAcc-arCoeff()-Z,4"	"tBodyAcc-correlation()-X,Y"
[39] "tBodyAcc-correlation()-X,Z"	"tBodyAcc-correlation()-Y,Z"
[41] "tGravityAcc-mean()-X"	"tGravityAcc-mean()-Y"
[43] "tGravityAcc-mean()-Z"	"tGravityAcc-std()-X"
[45] "tGravityAcc-std()-Y"	"tGravityAcc-std()-Z"
[47] "tGravityAcc-mad()-X"	"tGravityAcc-mad()-Y"
[49] "tGravityAcc-mad()-Z"	"tGravityAcc-max()-X"
[51] "tGravityAcc-max()-Y"	"tGravityAcc-max()-Z"
[53] "tGravityAcc-min()-X"	"tGravityAcc-min()-Y"
[55] "tGravityAcc-min()-Z"	"tGravityAcc-sma()"
[57] "tGravityAcc-energy()-X"	"tGravityAcc-energy()-Y"
[59] "tGravityAcc-energy()-Z"	"tGravityAcc-iqr()-X"
[61] "tGravityAcc-iqr()-Y"	"tGravityAcc-iqr()-Z"
[63] "tGravityAcc-entropy()-X"	"tGravityAcc-entropy()-Y"
[65] "tGravityAcc-entropy()-Z"	"tGravityAcc-arCoeff()-X,1"
[67] "tGravityAcc-arCoeff()-X,2"	"tGravityAcc-arCoeff()-X,3"
[69] "tGravityAcc-arCoeff()-X,4"	"tGravityAcc-arCoeff()-Y,1"
[71] "tGravityAcc-arCoeff()-Y,2"	"tGravityAcc-arCoeff()-Y,3"
[73] "tGravityAcc-arCoeff()-Y,4"	"tGravityAcc-arCoeff()-Z,1"
[75] "tGravityAcc-arCoeff()-Z,2"	"tGravityAcc-arCoeff()-Z,3"
[77] "tGravityAcc-arCoeff()-Z,4"	"tGravityAcc-correlation()-X,Y"
[79] "tGravityAcc-correlation()-X,Z"	"tGravityAcc-correlation()-Y,Z"
[81] "tBodyAccJerk-mean()-X"	"tBodyAccJerk-mean()-Y"
[83] "tBodyAccJerk-mean()-Z"	"tBodyAccJerk-std()-X"
[85] "tBodyAccJerk-std()-Y"	"tBodyAccJerk-std()-Z"
[87] "tBodyAccJerk-mad()-X"	"tBodyAccJerk-mad()-Y"
[89] "tBodyAccJerk-mad()-Z"	"tBodyAccJerk-max()-X"
[91] "tBodyAccJerk-max()-Y"	"tBodyAccJerk-max()-Z"
[93] "tBodyAccJerk-min()-X"	"tBodyAccJerk-min()-Y"
[95] "tBodyAccJerk-min()-Z"	"tBodyAccJerk-sma()"
[97] "tBodyAccJerk-energy()-X"	"tBodyAccJerk-energy()-Y"
[99] "tBodyAccJerk-energy()-Z"	"tBodyAccJerk-iqr()-X"
[101] "tBodyAccJerk-iqr()-Y"	"tBodyAccJerk-iqr()-Z"
[103] "tBodyAccJerk-entropy()-X"	"tBodyAccJerk-entropy()-Y"
[105] "tBodyAccJerk-entropy()-Z"	"tBodyAccJerk-arCoeff()-X,1"
[107] "tBodyAccJerk-arCoeff()-X,2"	"tBodyAccJerk-arCoeff()-X,3"
[109] "tBodyAccJerk-arCoeff()-X,4"	"tBodyAccJerk-arCoeff()-Y,1"
[111] "tBodyAccJerk-arCoeff()-Y,2"	"tBodyAccJerk-arCoeff()-Y,3"
[113] "tBodyAccJerk-arCoeff()-Y,4"	"tBodyAccJerk-arCoeff()-Z,1"
[115] "tBodyAccJerk-arCoeff()-Z,2"	"tBodyAccJerk-arCoeff()-Z,3"
[117] "tBodyAccJerk-arCoeff()-Z,4"	"tBodyAccJerk-correlation()-X,Y"
[119] "tBodyAccJerk-correlation()-X,Z"	"tBodyAccJerk-correlation()-Y,Z"
[121] "tBodyGyro-mean()-X"	"tBodyGyro-mean()-Y"
[123] "tBodyGyro-mean()-Z"	"tBodyGyro-std()-X"
[125] "tBodyGyro-std()-Y"	"tBodyGyro-std()-Z"
[127] "tBodyGyro-mad()-X"	"tBodyGyro-mad()-Y"
[129] "tBodyGyro-mad()-Z"	"tBodyGyro-max()-X"
[131] "tBodyGyro-max()-Y"	"tBodyGyro-max()-Z"
[133] "tBodyGyro-min()-X"	"tBodyGyro-min()-Y"
[135] "tBodyGyro-min()-Z"	"tBodyGyro-sma()"
[137] "tBodyGyro-energy()-X"	"tBodyGyro-energy()-Y"
[139] "tBodyGyro-energy()-Z"	"tBodyGyro-iqr()-X"
[141] "tBodyGyro-iqr()-Y"	"tBodyGyro-iqr()-Z"

[143]	"tBodyGyro-entropy()-X"	"tBodyGyro-entropy()-Y"
[145]	"tBodyGyro-entropy()-Z"	"tBodyGyro-arCoeff()-X,1"
[147]	"tBodyGyro-arCoeff()-X,2"	"tBodyGyro-arCoeff()-X,3"
[149]	"tBodyGyro-arCoeff()-X,4"	"tBodyGyro-arCoeff()-Y,1"
[151]	"tBodyGyro-arCoeff()-Y,2"	"tBodyGyro-arCoeff()-Y,3"
[153]	"tBodyGyro-arCoeff()-Y,4"	"tBodyGyro-arCoeff()-Z,1"
[155]	"tBodyGyro-arCoeff()-Z,2"	"tBodyGyro-arCoeff()-Z,3"
[157]	"tBodyGyro-arCoeff()-Z,4"	"tBodyGyro-correlation()-X,Y"
[159]	"tBodyGyro-correlation()-X,Z"	"tBodyGyro-correlation()-Y,Z"
[161]	"tBodyGyroJerk-mean()-X"	"tBodyGyroJerk-mean()-Y"
[163]	"tBodyGyroJerk-mean()-Z"	"tBodyGyroJerk-std()-X"
[165]	"tBodyGyroJerk-std()-Y"	"tBodyGyroJerk-std()-Z"
[167]	"tBodyGyroJerk-mad()-X"	"tBodyGyroJerk-mad()-Y"
[169]	"tBodyGyroJerk-mad()-Z"	"tBodyGyroJerk-max()-X"
[171]	"tBodyGyroJerk-max()-Y"	"tBodyGyroJerk-max()-Z"
[173]	"tBodyGyroJerk-min()-X"	"tBodyGyroJerk-min()-Y"
[175]	"tBodyGyroJerk-min()-Z"	"tBodyGyroJerk-sma()"
[177]	"tBodyGyroJerk-energy()-X"	"tBodyGyroJerk-energy()-Y"
[179]	"tBodyGyroJerk-energy()-Z"	"tBodyGyroJerk-iqr()-X"
[181]	"tBodyGyroJerk-iqr()-Y"	"tBodyGyroJerk-iqr()-Z"
[183]	"tBodyGyroJerk-entropy()-X"	"tBodyGyroJerk-entropy()-Y"
[185]	"tBodyGyroJerk-entropy()-Z"	"tBodyGyroJerk-arCoeff()-X,1"
[187]	"tBodyGyroJerk-arCoeff()-X,2"	"tBodyGyroJerk-arCoeff()-X,3"
[189]	"tBodyGyroJerk-arCoeff()-X,4"	"tBodyGyroJerk-arCoeff()-Y,1"
[191]	"tBodyGyroJerk-arCoeff()-Y,2"	"tBodyGyroJerk-arCoeff()-Y,3"
[193]	"tBodyGyroJerk-arCoeff()-Y,4"	"tBodyGyroJerk-arCoeff()-Z,1"
[195]	"tBodyGyroJerk-arCoeff()-Z,2"	"tBodyGyroJerk-arCoeff()-Z,3"
[197]	"tBodyGyroJerk-arCoeff()-Z,4"	"tBodyGyroJerk-correlation()-X,Y"
[199]	"tBodyGyroJerk-correlation()-X,Z"	"tBodyGyroJerk-correlation()-Y,Z"
[201]	"tBodyAccMag-mean()"	"tBodyAccMag-std()"
[203]	"tBodyAccMag-mad()"	"tBodyAccMag-max()"
[205]	"tBodyAccMag-min()"	"tBodyAccMag-sma()"
[207]	"tBodyAccMag-energy()"	"tBodyAccMag-iqr()"
[209]	"tBodyAccMag-entropy()"	"tBodyAccMag-arCoeff()1"
[211]	"tBodyAccMag-arCoeff()2"	"tBodyAccMag-arCoeff()3"
[213]	"tBodyAccMag-arCoeff()4"	"tGravityAccMag-mean()"
[215]	"tGravityAccMag-std()"	"tGravityAccMag-mad()"
[217]	"tGravityAccMag-max()"	"tGravityAccMag-min()"
[219]	"tGravityAccMag-sma()"	"tGravityAccMag-energy()"
[221]	"tGravityAccMag-iqr()"	"tGravityAccMag-entropy()"
[223]	"tGravityAccMag-arCoeff()1"	"tGravityAccMag-arCoeff()2"
[225]	"tGravityAccMag-arCoeff()3"	"tGravityAccMag-arCoeff()4"
[227]	"tBodyAccJerkMag-mean()"	"tBodyAccJerkMag-std()"
[229]	"tBodyAccJerkMag-mad()"	"tBodyAccJerkMag-max()"
[231]	"tBodyAccJerkMag-min()"	"tBodyAccJerkMag-sma()"
[233]	"tBodyAccJerkMag-energy()"	"tBodyAccJerkMag-iqr()"
[235]	"tBodyAccJerkMag-entropy()"	"tBodyAccJerkMag-arCoeff()1"
[237]	"tBodyAccJerkMag-arCoeff()2"	"tBodyAccJerkMag-arCoeff()3"
[239]	"tBodyAccJerkMag-arCoeff()4"	"tBodyGyroMag-mean()"
[241]	"tBodyGyroMag-std()"	"tBodyGyroMag-mad()"
[243]	"tBodyGyroMag-max()"	"tBodyGyroMag-min()"
[245]	"tBodyGyroMag-sma()"	"tBodyGyroMag-energy()"
[247]	"tBodyGyroMag-iqr()"	"tBodyGyroMag-entropy()"
[249]	"tBodyGyroMag-arCoeff()1"	"tBodyGyroMag-arCoeff()2"
[251]	"tBodyGyroMag-arCoeff()3"	"tBodyGyroMag-arCoeff()4"
[253]	"tBodyGyroJerkMag-mean()"	"tBodyGyroJerkMag-std()"
[255]	"tBodyGyroJerkMag-mad()"	"tBodyGyroJerkMag-max()"
[257]	"tBodyGyroJerkMag-min()"	"tBodyGyroJerkMag-sma()"
[259]	"tBodyGyroJerkMag-energy()"	"tBodyGyroJerkMag-iqr()"
[261]	"tBodyGyroJerkMag-entropy()"	"tBodyGyroJerkMag-arCoeff()1"
[263]	"tBodyGyroJerkMag-arCoeff()2"	"tBodyGyroJerkMag-arCoeff()3"
[265]	"tBodyGyroJerkMag-arCoeff()4"	"fBodyAcc-mean()-X"
[267]	"fBodyAcc-mean()-Y"	"fBodyAcc-mean()-Z"
[269]	"fBodyAcc-std()-X"	"fBodyAcc-std()-Y"
[271]	"fBodyAcc-std()-Z"	"fBodyAcc-mad()-X"
[273]	"fBodyAcc-mad()-Y"	"fBodyAcc-mad()-Z"
[275]	"fBodyAcc-max()-X"	"fBodyAcc-max()-Y"
[277]	"fBodyAcc-max()-Z"	"fBodyAcc-min()-X"
[279]	"fBodyAcc-min()-Y"	"fBodyAcc-min()-Z"
[281]	"fBodyAcc-sma()"	"fBodyAcc-energy()-X"
[283]	"fBodyAcc-energy()-Y"	"fBodyAcc-energy()-Z"
[285]	"fBodyAcc-iqr()-X"	"fBodyAcc-iqr()-Y"
[287]	"fBodyAcc-iqr()-Z"	"fBodyAcc-entropy()-X"
[289]	"fBodyAcc-entropy()-Y"	"fBodyAcc-entropy()-Z"
[291]	"fBodyAcc-maxInds-X"	"fBodyAcc-maxInds-Y"
[293]	"fBodyAcc-maxInds-Z"	"fBodyAcc-meanFreq()-X"
[295]	"fBodyAcc-meanFreq()-Y"	"fBodyAcc-meanFreq()-Z"
[297]	"fBodyAcc-skewness()-X"	"fBodyAcc-kurtosis()-X"
[299]	"fBodyAcc-skewness()-Y"	"fBodyAcc-kurtosis()-Y"
[301]	"fBodyAcc-skewness()-Z"	"fBodyAcc-kurtosis()-Z"
[303]	"fBodyAcc-bandsEnergy()-1,8"	"fBodyAcc-bandsEnergy()-9,16"

[305]	"fBodyAcc-bandsEnergy()-17,24"	"fBodyAcc-bandsEnergy()-25,32"
[307]	"fBodyAcc-bandsEnergy()-33,40"	"fBodyAcc-bandsEnergy()-41,48"
[309]	"fBodyAcc-bandsEnergy()-49,56"	"fBodyAcc-bandsEnergy()-57,64"
[311]	"fBodyAcc-bandsEnergy()-1,16"	"fBodyAcc-bandsEnergy()-17,32"
[313]	"fBodyAcc-bandsEnergy()-33,48"	"fBodyAcc-bandsEnergy()-49,64"
[315]	"fBodyAcc-bandsEnergy()-1,24"	"fBodyAcc-bandsEnergy()-25,48"
[317]	"fBodyAcc-bandsEnergy()-1,8"	"fBodyAcc-bandsEnergy()-9,16"
[319]	"fBodyAcc-bandsEnergy()-17,24"	"fBodyAcc-bandsEnergy()-25,32"
[321]	"fBodyAcc-bandsEnergy()-33,40"	"fBodyAcc-bandsEnergy()-41,48"
[323]	"fBodyAcc-bandsEnergy()-49,56"	"fBodyAcc-bandsEnergy()-57,64"
[325]	"fBodyAcc-bandsEnergy()-1,16"	"fBodyAcc-bandsEnergy()-17,32"
[327]	"fBodyAcc-bandsEnergy()-33,48"	"fBodyAcc-bandsEnergy()-49,64"
[329]	"fBodyAcc-bandsEnergy()-1,24"	"fBodyAcc-bandsEnergy()-25,48"
[331]	"fBodyAcc-bandsEnergy()-1,8"	"fBodyAcc-bandsEnergy()-9,16"
[333]	"fBodyAcc-bandsEnergy()-17,24"	"fBodyAcc-bandsEnergy()-25,32"
[335]	"fBodyAcc-bandsEnergy()-33,40"	"fBodyAcc-bandsEnergy()-41,48"
[337]	"fBodyAcc-bandsEnergy()-49,56"	"fBodyAcc-bandsEnergy()-57,64"
[339]	"fBodyAcc-bandsEnergy()-1,16"	"fBodyAcc-bandsEnergy()-17,32"
[341]	"fBodyAcc-bandsEnergy()-33,48"	"fBodyAcc-bandsEnergy()-49,64"
[343]	"fBodyAcc-bandsEnergy()-1,24"	"fBodyAcc-bandsEnergy()-25,48"
[345]	"fBodyAccJerk-mean()-X"	"fBodyAccJerk-mean()-Y"
[347]	"fBodyAccJerk-mean()-Z"	"fBodyAccJerk-std()-X"
[349]	"fBodyAccJerk-std()-Y"	"fBodyAccJerk-std()-Z"
[351]	"fBodyAccJerk-mad()-X"	"fBodyAccJerk-mad()-Y"
[353]	"fBodyAccJerk-mad()-Z"	"fBodyAccJerk-max()-X"
[355]	"fBodyAccJerk-max()-Y"	"fBodyAccJerk-max()-Z"
[357]	"fBodyAccJerk-min()-X"	"fBodyAccJerk-min()-Y"
[359]	"fBodyAccJerk-min()-Z"	"fBodyAccJerk-sma()"
[361]	"fBodyAccJerk-energy()-X"	"fBodyAccJerk-energy()-Y"
[363]	"fBodyAccJerk-energy()-Z"	"fBodyAccJerk-iqr()-X"
[365]	"fBodyAccJerk-iqr()-Y"	"fBodyAccJerk-iqr()-Z"
[367]	"fBodyAccJerk-entropy()-X"	"fBodyAccJerk-entropy()-Y"
[369]	"fBodyAccJerk-entropy()-Z"	"fBodyAccJerk-maxInds-X"
[371]	"fBodyAccJerk-maxInds-Y"	"fBodyAccJerk-maxInds-Z"
[373]	"fBodyAccJerk-meanFreq()-X"	"fBodyAccJerk-meanFreq()-Y"
[375]	"fBodyAccJerk-meanFreq()-Z"	"fBodyAccJerk-skewness()-X"
[377]	"fBodyAccJerk-kurtosis()-X"	"fBodyAccJerk-skewness()-Y"
[379]	"fBodyAccJerk-kurtosis()-Y"	"fBodyAccJerk-skewness()-Z"
[381]	"fBodyAccJerk-kurtosis()-Z"	"fBodyAccJerk-bandsEnergy()-1,8"
[383]	"fBodyAccJerk-bandsEnergy()-9,16"	"fBodyAccJerk-bandsEnergy()-17,24"
[385]	"fBodyAccJerk-bandsEnergy()-25,32"	"fBodyAccJerk-bandsEnergy()-33,40"
[387]	"fBodyAccJerk-bandsEnergy()-41,48"	"fBodyAccJerk-bandsEnergy()-49,56"
[389]	"fBodyAccJerk-bandsEnergy()-57,64"	"fBodyAccJerk-bandsEnergy()-1,16"
[391]	"fBodyAccJerk-bandsEnergy()-17,32"	"fBodyAccJerk-bandsEnergy()-33,48"
[393]	"fBodyAccJerk-bandsEnergy()-49,64"	"fBodyAccJerk-bandsEnergy()-1,24"
[395]	"fBodyAccJerk-bandsEnergy()-25,48"	"fBodyAccJerk-bandsEnergy()-1,8"
[397]	"fBodyAccJerk-bandsEnergy()-9,16"	"fBodyAccJerk-bandsEnergy()-17,24"
[399]	"fBodyAccJerk-bandsEnergy()-25,32"	"fBodyAccJerk-bandsEnergy()-33,40"
[401]	"fBodyAccJerk-bandsEnergy()-41,48"	"fBodyAccJerk-bandsEnergy()-49,56"
[403]	"fBodyAccJerk-bandsEnergy()-57,64"	"fBodyAccJerk-bandsEnergy()-1,16"
[405]	"fBodyAccJerk-bandsEnergy()-17,32"	"fBodyAccJerk-bandsEnergy()-33,48"
[407]	"fBodyAccJerk-bandsEnergy()-49,64"	"fBodyAccJerk-bandsEnergy()-1,24"
[409]	"fBodyAccJerk-bandsEnergy()-25,48"	"fBodyAccJerk-bandsEnergy()-1,8"
[411]	"fBodyAccJerk-bandsEnergy()-9,16"	"fBodyAccJerk-bandsEnergy()-17,24"
[413]	"fBodyAccJerk-bandsEnergy()-25,32"	"fBodyAccJerk-bandsEnergy()-33,40"
[415]	"fBodyAccJerk-bandsEnergy()-41,48"	"fBodyAccJerk-bandsEnergy()-49,56"
[417]	"fBodyAccJerk-bandsEnergy()-57,64"	"fBodyAccJerk-bandsEnergy()-1,16"
[419]	"fBodyAccJerk-bandsEnergy()-17,32"	"fBodyAccJerk-bandsEnergy()-33,48"
[421]	"fBodyAccJerk-bandsEnergy()-49,64"	"fBodyAccJerk-bandsEnergy()-1,24"
[423]	"fBodyAccJerk-bandsEnergy()-25,48"	"fBodyGyro-mean()-X"
[425]	"fBodyGyro-mean()-Y"	"fBodyGyro-mean()-Z"
[427]	"fBodyGyro-std()-X"	"fBodyGyro-std()-Y"
[429]	"fBodyGyro-std()-Z"	"fBodyGyro-mad()-X"
[431]	"fBodyGyro-mad()-Y"	"fBodyGyro-mad()-Z"
[433]	"fBodyGyro-max()-X"	"fBodyGyro-max()-Y"
[435]	"fBodyGyro-max()-Z"	"fBodyGyro-min()-X"
[437]	"fBodyGyro-min()-Y"	"fBodyGyro-min()-Z"
[439]	"fBodyGyro-sma()"	"fBodyGyro-energy()-X"
[441]	"fBodyGyro-energy()-Y"	"fBodyGyro-energy()-Z"
[443]	"fBodyGyro-iqr()-X"	"fBodyGyro-iqr()-Y"
[445]	"fBodyGyro-iqr()-Z"	"fBodyGyro-entropy()-X"
[447]	"fBodyGyro-entropy()-Y"	"fBodyGyro-entropy()-Z"
[449]	"fBodyGyro-maxInds-X"	"fBodyGyro-maxInds-Y"
[451]	"fBodyGyro-maxInds-Z"	"fBodyGyro-meanFreq()-X"
[453]	"fBodyGyro-meanFreq()-Y"	"fBodyGyro-meanFreq()-Z"
[455]	"fBodyGyro-skewness()-X"	"fBodyGyro-kurtosis()-X"
[457]	"fBodyGyro-skewness()-Y"	"fBodyGyro-kurtosis()-Y"
[459]	"fBodyGyro-skewness()-Z"	"fBodyGyro-kurtosis()-Z"
[461]	"fBodyGyro-bandsEnergy()-1,8"	"fBodyGyro-bandsEnergy()-9,16"
[463]	"fBodyGyro-bandsEnergy()-17,24"	"fBodyGyro-bandsEnergy()-25,32"
[465]	"fBodyGyro-bandsEnergy()-33,40"	"fBodyGyro-bandsEnergy()-41,48"

[467]	"fBodyGyro-bandsEnergy()-49,56"	"fBodyGyro-bandsEnergy()-57,64"
[469]	"fBodyGyro-bandsEnergy()-1,16"	"fBodyGyro-bandsEnergy()-17,32"
[471]	"fBodyGyro-bandsEnergy()-33,48"	"fBodyGyro-bandsEnergy()-49,64"
[473]	"fBodyGyro-bandsEnergy()-1,24"	"fBodyGyro-bandsEnergy()-25,48"
[475]	"fBodyGyro-bandsEnergy()-1,8"	"fBodyGyro-bandsEnergy()-9,16"
[477]	"fBodyGyro-bandsEnergy()-17,24"	"fBodyGyro-bandsEnergy()-25,32"
[479]	"fBodyGyro-bandsEnergy()-33,40"	"fBodyGyro-bandsEnergy()-41,48"
[481]	"fBodyGyro-bandsEnergy()-49,56"	"fBodyGyro-bandsEnergy()-57,64"
[483]	"fBodyGyro-bandsEnergy()-1,16"	"fBodyGyro-bandsEnergy()-17,32"
[485]	"fBodyGyro-bandsEnergy()-33,48"	"fBodyGyro-bandsEnergy()-49,64"
[487]	"fBodyGyro-bandsEnergy()-1,24"	"fBodyGyro-bandsEnergy()-25,48"
[489]	"fBodyGyro-bandsEnergy()-1,8"	"fBodyGyro-bandsEnergy()-9,16"
[491]	"fBodyGyro-bandsEnergy()-17,24"	"fBodyGyro-bandsEnergy()-25,32"
[493]	"fBodyGyro-bandsEnergy()-33,40"	"fBodyGyro-bandsEnergy()-41,48"
[495]	"fBodyGyro-bandsEnergy()-49,56"	"fBodyGyro-bandsEnergy()-57,64"
[497]	"fBodyGyro-bandsEnergy()-1,16"	"fBodyGyro-bandsEnergy()-17,32"
[499]	"fBodyGyro-bandsEnergy()-33,48"	"fBodyGyro-bandsEnergy()-49,64"
[501]	"fBodyGyro-bandsEnergy()-1,24"	"fBodyGyro-bandsEnergy()-25,48"
[503]	"fBodyAccMag-mean()"	"fBodyAccMag-std()"
[505]	"fBodyAccMag-mad()"	"fBodyAccMag-max()"
[507]	"fBodyAccMag-min()"	"fBodyAccMag-sma()"
[509]	"fBodyAccMag-energy()"	"fBodyAccMag-iqr()"
[511]	"fBodyAccMag-entropy()"	"fBodyAccMag-maxInds"
[513]	"fBodyAccMag-meanFreq()"	"fBodyAccMag-skewness()"
[515]	"fBodyAccMag-kurtosis()"	"fBodyBodyAccJerkMag-mean()"
[517]	"fBodyBodyAccJerkMag-std()"	"fBodyBodyAccJerkMag-mad()"
[519]	"fBodyBodyAccJerkMag-max()"	"fBodyBodyAccJerkMag-min()"
[521]	"fBodyBodyAccJerkMag-sma()"	"fBodyBodyAccJerkMag-energy()"
[523]	"fBodyBodyAccJerkMag-iqr()"	"fBodyBodyAccJerkMag-entropy()"
[525]	"fBodyBodyAccJerkMag-maxInds"	"fBodyBodyAccJerkMag-meanFreq()"
[527]	"fBodyBodyAccJerkMag-skewness()"	"fBodyBodyAccJerkMag-kurtosis()"
[529]	"fBodyBodyGyroMag-mean()"	"fBodyBodyGyroMag-std()"
[531]	"fBodyBodyGyroMag-mad()"	"fBodyBodyGyroMag-max()"
[533]	"fBodyBodyGyroMag-min()"	"fBodyBodyGyroMag-sma()"
[535]	"fBodyBodyGyroMag-energy()"	"fBodyBodyGyroMag-iqr()"
[537]	"fBodyBodyGyroMag-entropy()"	"fBodyBodyGyroMag-maxInds"
[539]	"fBodyBodyGyroMag-meanFreq()"	"fBodyBodyGyroMag-skewness()"
[541]	"fBodyBodyGyroMag-kurtosis()"	"fBodyBodyGyroJerkMag-mean()"
[543]	"fBodyBodyGyroJerkMag-std()"	"fBodyBodyGyroJerkMag-mad()"
[545]	"fBodyBodyGyroJerkMag-max()"	"fBodyBodyGyroJerkMag-min()"
[547]	"fBodyBodyGyroJerkMag-sma()"	"fBodyBodyGyroJerkMag-energy()"
[549]	"fBodyBodyGyroJerkMag-iqr()"	"fBodyBodyGyroJerkMag-entropy()"
[551]	"fBodyBodyGyroJerkMag-maxInds"	"fBodyBodyGyroJerkMag-meanFreq()"
[553]	"fBodyBodyGyroJerkMag-skewness()"	"fBodyBodyGyroJerkMag-kurtosis()"
[555]	"angle(tBodyAccMean,gravity)"	"angle(tBodyAccJerkMean,gravityMean)"
[557]	"angle(tBodyGyroMean,gravityMean)"	"angle(tBodyGyroJerkMean,gravityMean)"
[559]	"angle(X,gravityMean)"	"angle(Y,gravityMean)"
[561]	"angle(Z,gravityMean)"	

## y\_test, y\_train

Content: Shows information about the activity (id) performed by the people who performed the test (9 people) and by the ones who performed the train (21 people).

Record Type

V1 – activity id (below a sample of the file content)

```
1 5
2 5
3 5
4 5
5 5
6 5
7 5
8 5
9 5
10 5
```

## subject\_test, subject\_train

Content: Each row identifies the subject who performed the activity for each window sample.

## Record Type

```
V1 - Person Id (below a sample of the file content)
2917 24
2918 24
2919 24
2920 24
2921 24
2922 24
2923 24
2924 24
2925 24
2926 24
2927 24
```

## X\_data (this file is X\_train and X\_test merged)

Content: Shows information about the activity measurements taken by the people who performed the test (9 people) and by the ones who performed the train (21 people).

Record Type (same record Type as X\_train and X\_test)

## y\_data (this file is y\_train and y\_test merged)

Content: Shows information about the activity (id) performed by the people who performed the test (9 people) and by the ones who performed the train (21 people).

Record Type

Activity.Id

## subject\_data (this file is subject\_train and subject\_test merged)

Content: Each row identifies the subject who performed the activity for each window sample.

Record Type

Subject\_id

## X\_data\_mean\_std

Content: Shows information about the activity means and standard deviation measurements taken by the people who performed the test (9 people) and by the ones who performed the train (21 people).

Record Type

```
[1] "tBodyAcc-mean()-X"      "tBodyAcc-mean()-Y"
[3] "tBodyAcc-mean()-Z"      "tGravityAcc-mean()-X"
[5] "tGravityAcc-mean()-Y"   "tGravityAcc-mean()-Z"
[7] "tBodyAccJerk-mean()-X"  "tBodyAccJerk-mean()-Y"
[9] "tBodyAccJerk-mean()-Z"  "tBodyGyro-mean()-X"
[11] "tBodyGyro-mean()-Y"     "tBodyGyro-mean()-Z"
[13] "tBodyGyroJerk-mean()-X" "tBodyGyroJerk-mean()-Y"
[15] "tBodyGyroJerk-mean()-Z" "tBodyAccMag-mean()"
[17] "tGravityAccMag-mean()"  "tBodyAccJerkMag-mean()"
[19] "tBodyGyroMag-mean()"    "tBodyGyroJerkMag-mean()"
[21] "fBodyAcc-mean()-X"      "fBodyAcc-mean()-Y"
[23] "fBodyAcc-mean()-Z"      "fBodyAcc-meanFreq()-X"
[25] "fBodyAcc-meanFreq()-Y"  "fBodyAcc-meanFreq()-Z"
[27] "fBodyAccJerk-mean()-X"  "fBodyAccJerk-mean()-Y"
[29] "fBodyAccJerk-mean()-Z"  "fBodyAccJerk-meanFreq()-X"
[31] "fBodyAccJerk-meanFreq()-Y" "fBodyAccJerk-meanFreq()-Z"
[33] "fBodyGyro-mean()-X"     "fBodyGyro-mean()-Y"
[35] "fBodyGyro-mean()-Z"     "fBodyGyro-meanFreq()-X"
[37] "fBodyGyro-meanFreq()-Y" "fBodyGyro-meanFreq()-Z"
[39] "fBodyAccMag-mean()"     "fBodyAccMag-meanFreq()"
[41] "fBodyBodyAccJerkMag-mean()" "fBodyBodyAccJerkMag-meanFreq()"
[43] "fBodyBodyGyroMag-mean()" "fBodyBodyGyroMag-meanFreq()"
[45] "fBodyBodyGyroJerkMag-mean()" "fBodyBodyGyroJerkMag-meanFreq()"
```

[47]	"tBodyAcc-std()-x"	"tBodyAcc-std()-y"
[49]	"tBodyAcc-std()-z"	"tGravityAcc-std()-x"
[51]	"tGravityAcc-std()-y"	"tGravityAcc-std()-z"
[53]	"tBodyAccJerk-std()-x"	"tBodyAccJerk-std()-y"
[55]	"tBodyAccJerk-std()-z"	"tBodyGyro-std()-x"
[57]	"tBodyGyro-std()-y"	"tBodyGyro-std()-z"
[59]	"tBodyGyroJerk-std()-x"	"tBodyGyroJerk-std()-y"
[61]	"tBodyGyroJerk-std()-z"	"tBodyAccMag-std()"
[63]	"tGravityAccMag-std()"	"tBodyAccJerkMag-std()"
[65]	"tBodyGyroMag-std()"	"tBodyGyroJerkMag-std()"
[67]	"fBodyAcc-std()-x"	"fBodyAcc-std()-y"
[69]	"fBodyAcc-std()-z"	"fBodyAccJerk-std()-x"
[71]	"fBodyAccJerk-std()-y"	"fBodyAccJerk-std()-z"
[73]	"fBodyGyro-std()-x"	"fBodyGyro-std()-y"
[75]	"fBodyGyro-std()-z"	"fBodyAccMag-std()"
[77]	"fBodyBodyAccJerkMag-std()"	"fBodyBodyGyroMag-std()"
[79]	"fBodyBodyGyroJerkMag-std()"	

## activity\_names

Content: Shows information about the activity means and standard deviation measurements taken by the people who performed the test (9 people) and by the ones who performed the train (21 people). In this 2 columns are added at the beginning to identify the activity id and activity name

## Record Type

[1]	"Activity.Id"	"Activity.Name"
[3]	"subject_id"	"tBodyAcc-mean()-x"
[5]	"tBodyAcc-mean()-y"	"tBodyAcc-mean()-z"
[7]	"tGravityAcc-mean()-x"	"tGravityAcc-mean()-y"
[9]	"tGravityAcc-mean()-z"	"tBodyAccJerk-mean()-x"
[11]	"tBodyAccJerk-mean()-y"	"tBodyAccJerk-mean()-z"
[13]	"tBodyGyro-mean()-x"	"tBodyGyro-mean()-y"
[15]	"tBodyGyro-mean()-z"	"tBodyGyroJerk-mean()-x"
[17]	"tBodyGyroJerk-mean()-y"	"tBodyGyroJerk-mean()-z"
[19]	"tBodyAccMag-mean()"	"tGravityAccMag-mean()"
[21]	"tBodyAccJerkMag-mean()"	"tBodyGyroMag-mean()"
[23]	"tBodyGyroJerkMag-mean()"	"fBodyAcc-mean()-x"
[25]	"fBodyAcc-mean()-y"	"fBodyAcc-mean()-z"
[27]	"fBodyAcc-meanFreq()-x"	"fBodyAcc-meanFreq()-y"
[29]	"fBodyAcc-meanFreq()-z"	"fBodyAccJerk-mean()-x"
[31]	"fBodyAccJerk-mean()-y"	"fBodyAccJerk-mean()-z"
[33]	"fBodyAccJerk-meanFreq()-x"	"fBodyAccJerk-meanFreq()-y"
[35]	"fBodyAccJerk-meanFreq()-z"	"fBodyGyro-mean()-x"
[37]	"fBodyGyro-mean()-y"	"fBodyGyro-mean()-z"
[39]	"fBodyGyro-meanFreq()-x"	"fBodyGyro-meanFreq()-y"
[41]	"fBodyGyro-meanFreq()-z"	"fBodyAccMag-mean()"
[43]	"fBodyAccMag-meanFreq()"	"fBodyBodyAccJerkMag-mean()"
[45]	"fBodyBodyAccJerkMag-meanFreq()"	"fBodyBodyGyroMag-mean()"
[47]	"fBodyBodyGyroMag-meanFreq()"	"fBodyBodyGyroJerkMag-mean()"
[49]	"fBodyBodyGyroJerkMag-meanFreq()"	"tBodyAcc-std()-x"
[51]	"tBodyAcc-std()-y"	"tBodyAcc-std()-z"
[53]	"tGravityAcc-std()-x"	"tGravityAcc-std()-y"
[55]	"tGravityAcc-std()-z"	"tBodyAccJerk-std()-x"
[57]	"tBodyAccJerk-std()-y"	"tBodyAccJerk-std()-z"
[59]	"tBodyGyro-std()-x"	"tBodyGyro-std()-y"
[61]	"tBodyGyro-std()-z"	"tBodyGyroJerk-std()-x"
[63]	"tBodyGyroJerk-std()-y"	"tBodyGyroJerk-std()-z"
[65]	"tBodyAccMag-std()"	"tGravityAccMag-std()"
[67]	"tBodyAccJerkMag-std()"	"tBodyGyroMag-std()"
[69]	"tBodyGyroJerkMag-std()"	"fBodyAcc-std()-x"
[71]	"fBodyAcc-std()-y"	"fBodyAcc-std()-z"
[73]	"fBodyAccJerk-std()-x"	"fBodyAccJerk-std()-y"
[75]	"fBodyAccJerk-std()-z"	"fBodyGyro-std()-x"
[77]	"fBodyGyro-std()-y"	"fBodyGyro-std()-z"
[79]	"fBodyAccMag-std()"	"fBodyBodyAccJerkMag-std()"
[81]	"fBodyBodyGyroMag-std()"	"fBodyBodyGyroJerkMag-std()"

## second\_tidy\_data

Content: Shows the average of each variable for each activity and each subject.

### Record Type

[1] "Group.1"	"tBodyAcc-mean()-X"
[3] "tBodyAcc-mean()-Y"	"tBodyAcc-mean()-Z"
[5] "tGravityAcc-mean()-X"	"tGravityAcc-mean()-Y"
[7] "tGravityAcc-mean()-Z"	"tBodyAccJerk-mean()-X"
[9] "tBodyAccJerk-mean()-Y"	"tBodyAccJerk-mean()-Z"
[11] "tBodyGyro-mean()-X"	"tBodyGyro-mean()-Y"
[13] "tBodyGyro-mean()-Z"	"tBodyGyroJerk-mean()-X"
[15] "tBodyGyroJerk-mean()-Y"	"tBodyGyroJerk-mean()-Z"
[17] "tBodyAccMag-mean()"	"tGravityAccMag-mean()"
[19] "tBodyAccJerkMag-mean()"	"tBodyGyroMag-mean()"
[21] "tBodyGyroJerkMag-mean()"	"fBodyAcc-mean()-X"
[23] "fBodyAcc-mean()-Y"	"fBodyAcc-mean()-Z"
[25] "fBodyAcc-meanFreq()-X"	"fBodyAcc-meanFreq()-Y"
[27] "fBodyAcc-meanFreq()-Z"	"fBodyAccJerk-mean()-X"
[29] "fBodyAccJerk-mean()-Y"	"fBodyAccJerk-mean()-Z"
[31] "fBodyAccJerk-meanFreq()-X"	"fBodyAccJerk-meanFreq()-Y"
[33] "fBodyAccJerk-meanFreq()-Z"	"fBodyGyro-mean()-X"
[35] "fBodyGyro-mean()-Y"	"fBodyGyro-mean()-Z"
[37] "fBodyGyro-meanFreq()-X"	"fBodyGyro-meanFreq()-Y"
[39] "fBodyGyro-meanFreq()-Z"	"fBodyAccMag-mean()"
[41] "fBodyAccMag-meanFreq()"	"fBodyBodyAccJerkMag-mean()"
[43] "fBodyBodyAccJerkMag-meanFreq()"	"fBodyBodyGyroMag-mean()"
[45] "fBodyBodyGyroMag-meanFreq()"	"fBodyBodyGyroJerkMag-mean()"
[47] "fBodyBodyGyroJerkMag-meanFreq()"	"tBodyAcc-std()-X"
[49] "tBodyAcc-std()-Y"	"tBodyAcc-std()-Z"
[51] "tGravityAcc-std()-X"	"tGravityAcc-std()-Y"
[53] "tGravityAcc-std()-Z"	"tBodyAccJerk-std()-X"
[55] "tBodyAccJerk-std()-Y"	"tBodyAccJerk-std()-Z"
[57] "tBodyGyro-std()-X"	"tBodyGyro-std()-Y"
[59] "tBodyGyro-std()-Z"	"tBodyGyroJerk-std()-X"
[61] "tBodyGyroJerk-std()-Y"	"tBodyGyroJerk-std()-Z"
[63] "tBodyAccMag-std()"	"tGravityAccMag-std()"
[65] "tBodyAccJerkMag-std()"	"tBodyGyroMag-std()"
[67] "tBodyGyroJerkMag-std()"	"fBodyAcc-std()-X"
[69] "fBodyAcc-std()-Y"	"fBodyAcc-std()-Z"
[71] "fBodyAccJerk-std()-X"	"fBodyAccJerk-std()-Y"
[73] "fBodyAccJerk-std()-Z"	"fBodyGyro-std()-X"
[75] "fBodyGyro-std()-Y"	"fBodyGyro-std()-Z"
[77] "fBodyAccMag-std()"	"fBodyBodyAccJerkMag-std()"
[79] "fBodyBodyGyroMag-std()"	"fBodyBodyGyroJerkMag-std()"