**DATA DICTIONARY**

**Total amount of observations**: 180

**Total amount of variables:** 68

**Variables.**

**activity :**

* Description: this variable describes the activity that the subject was doing during the data capture procedure.
* Data type: chr
* Sample data: "LAYING" "SITTING" "STANDING" "WALKING" ...

**subjectId**

* Description: This variable describes each of the subjects, identified by id.
* Data type: : int
* Sample data: 1 2 3 …

The following set of variables, describes per activity and subject, the mean value obtained between several samples recollected, therefore the “mean\_” prefix.

Each variable describes different parameters, as follows:

* **Time**: The variable get time information (instead of frecuency information based on Fast Fourier Transform)
* **Acc:** It refers to samples of the accelerometer.
* **Gyro:** It refers to samples of the gyrometer.
* **Gravity:** It refers about Gravity information.
* **Body:** It refers about body information.
* **Mean:** It refers to the original mean value obtained in the sample.
* **Std:** It refers to the original standard deviation value.
* **X,Y and Z:** They refers to the x,y and z special points.

$ mean\_timeBodyAccMeanX : num 0.222 0.261 0.279 0.277 0.289 ...

$ mean\_timeBodyAccMeanY : num -0.04051 -0.00131 -0.01614 -0.01738 -0.00992 ...

$ mean\_timeBodyAccMeanZ : num -0.113 -0.105 -0.111 -0.111 -0.108 ...

$ mean\_timeBodyAccStdX : num -0.928 -0.977 -0.996 -0.284 0.03 ...

$ mean\_timeBodyAccStdY : num -0.8368 -0.9226 -0.9732 0.1145 -0.0319 ...

$ mean\_timeBodyAccStdZ : num -0.826 -0.94 -0.98 -0.26 -0.23 ...

$ mean\_timeGravityAccMeanX : num -0.249 0.832 0.943 0.935 0.932 ...

$ mean\_timeGravityAccMeanY : num 0.706 0.204 -0.273 -0.282 -0.267 ...

$ mean\_timeGravityAccMeanZ : num 0.4458 0.332 0.0135 -0.0681 -0.0621 ...

$ mean\_timeGravityAccStdX : num -0.897 -0.968 -0.994 -0.977 -0.951 ...

$ mean\_timeGravityAccStdY : num -0.908 -0.936 -0.981 -0.971 -0.937 ...

$ mean\_timeGravityAccStdZ : num -0.852 -0.949 -0.976 -0.948 -0.896 ...

$ mean\_timeBodyAccJerkMeanX : num 0.0811 0.0775 0.0754 0.074 0.0542 ...

$ mean\_timeBodyAccJerkMeanY : num 0.003838 -0.000619 0.007976 0.028272 0.02965 ...

$ mean\_timeBodyAccJerkMeanZ : num 0.01083 -0.00337 -0.00369 -0.00417 -0.01097 ...

$ mean\_timeBodyAccJerkStdX : num -0.9585 -0.9864 -0.9946 -0.1136 -0.0123 ...

$ mean\_timeBodyAccJerkStdY : num -0.924 -0.981 -0.986 0.067 -0.102 ...

$ mean\_timeBodyAccJerkStdZ : num -0.955 -0.988 -0.992 -0.503 -0.346 ...

$ mean\_timeBodyGyroMeanX : num -0.0166 -0.0454 -0.024 -0.0418 -0.0351 ...

$ mean\_timeBodyGyroMeanY : num -0.0645 -0.0919 -0.0594 -0.0695 -0.0909 ...

$ mean\_timeBodyGyroMeanZ : num 0.1487 0.0629 0.0748 0.0849 0.0901 ...

$ mean\_timeBodyGyroStdX : num -0.874 -0.977 -0.987 -0.474 -0.458 ...

$ mean\_timeBodyGyroStdY : num -0.9511 -0.9665 -0.9877 -0.0546 -0.1263 ...

$ mean\_timeBodyGyroStdZ : num -0.908 -0.941 -0.981 -0.344 -0.125 ...

$ mean\_timeBodyGyroJerkMeanX : num -0.1073 -0.0937 -0.0996 -0.09 -0.074 ...

$ mean\_timeBodyGyroJerkMeanY : num -0.0415 -0.0402 -0.0441 -0.0398 -0.044 ...

$ mean\_timeBodyGyroJerkMeanZ : num -0.0741 -0.0467 -0.049 -0.0461 -0.027 ...

$ mean\_timeBodyGyroJerkStdX : num -0.919 -0.992 -0.993 -0.207 -0.487 ...

$ mean\_timeBodyGyroJerkStdY : num -0.968 -0.99 -0.995 -0.304 -0.239 ...

$ mean\_timeBodyGyroJerkStdZ : num -0.958 -0.988 -0.992 -0.404 -0.269 ...

$ mean\_timeBodyAccMagMean : num -0.8419 -0.9485 -0.9843 -0.137 0.0272 ...

$ mean\_timeBodyAccMagStd : num -0.7951 -0.9271 -0.9819 -0.2197 0.0199 ...

$ mean\_timeGravityAccMagMean : num -0.8419 -0.9485 -0.9843 -0.137 0.0272 ...

$ mean\_timeGravityAccMagStd : num -0.7951 -0.9271 -0.9819 -0.2197 0.0199 ...

$ mean\_timeBodyAccJerkMagMean : num -0.9544 -0.9874 -0.9924 -0.1414 -0.0894 ...

$ mean\_timeBodyAccJerkMagStd : num -0.9282 -0.9841 -0.9931 -0.0745 -0.0258 ...

$ mean\_timeBodyGyroMagMean : num -0.8748 -0.9309 -0.9765 -0.161 -0.0757 ...

$ mean\_timeBodyGyroMagStd : num -0.819 -0.935 -0.979 -0.187 -0.226 ...

$ mean\_timeBodyGyroJerkMagMean : num -0.963 -0.992 -0.995 -0.299 -0.295 ...

$ mean\_timeBodyGyroJerkMagStd : num -0.936 -0.988 -0.995 -0.325 -0.307 ...

$ mean\_fftBodyAccMeanX : num -0.9391 -0.9796 -0.9952 -0.2028 0.0382 ...

$ mean\_fftBodyAccMeanY : num -0.86707 -0.94408 -0.97707 0.08971 0.00155 ...

$ mean\_fftBodyAccMeanZ : num -0.883 -0.959 -0.985 -0.332 -0.226 ...

$ mean\_fftBodyAccStdX : num -0.9244 -0.9764 -0.996 -0.3191 0.0243 ...

$ mean\_fftBodyAccStdY : num -0.834 -0.917 -0.972 0.056 -0.113 ...

$ mean\_fftBodyAccStdZ : num -0.813 -0.934 -0.978 -0.28 -0.298 ...

$ mean\_fftBodyAccJerkMeanX : num -0.9571 -0.9866 -0.9946 -0.1705 -0.0277 ...

$ mean\_fftBodyAccJerkMeanY : num -0.9225 -0.9816 -0.9854 -0.0352 -0.1287 ...

$ mean\_fftBodyAccJerkMeanZ : num -0.948 -0.986 -0.991 -0.469 -0.288 ...

$ mean\_fftBodyAccJerkStdX : num -0.9642 -0.9875 -0.9951 -0.1336 -0.0863 ...

$ mean\_fftBodyAccJerkStdY : num -0.932 -0.983 -0.987 0.107 -0.135 ...

$ mean\_fftBodyAccJerkStdZ : num -0.961 -0.988 -0.992 -0.535 -0.402 ...

$ mean\_fftBodyGyroMeanX : num -0.85 -0.976 -0.986 -0.339 -0.352 ...

$ mean\_fftBodyGyroMeanY : num -0.9522 -0.9758 -0.989 -0.1031 -0.0557 ...

$ mean\_fftBodyGyroMeanZ : num -0.9093 -0.9513 -0.9808 -0.2559 -0.0319 ...

$ mean\_fftBodyGyroStdX : num -0.882 -0.978 -0.987 -0.517 -0.495 ...

$ mean\_fftBodyGyroStdY : num -0.9512 -0.9623 -0.9871 -0.0335 -0.1814 ...

$ mean\_fftBodyGyroStdZ : num -0.917 -0.944 -0.982 -0.437 -0.238 ...

$ mean\_fftBodyAccMagMean : num -0.8618 -0.9478 -0.9854 -0.1286 0.0966 ...

$ mean\_fftBodyAccMagStd : num -0.798 -0.928 -0.982 -0.398 -0.187 ...

$ mean\_fftBodyBodyAccJerkMagMean : num -0.9333 -0.9853 -0.9925 -0.0571 0.0262 ...

$ mean\_fftBodyBodyAccJerkMagStd : num -0.922 -0.982 -0.993 -0.103 -0.104 ...

$ mean\_fftBodyBodyGyroMagMean : num -0.862 -0.958 -0.985 -0.199 -0.186 ...

$ mean\_fftBodyBodyGyroMagStd : num -0.824 -0.932 -0.978 -0.321 -0.398 ...

$ mean\_fftBodyBodyGyroJerkMagMean: num -0.942 -0.99 -0.995 -0.319 -0.282 ...

$ mean\_fftBodyBodyGyroMagStd : num -0.933 -0.987 -0.995 -0.382 -0.392 ...