**GettingAndCleaningData-CODEBOOK**

* Download data
* Unzip
* getSetDT func to load data into data.table
* getFeatureSetDT func to load into data.table and assign column name
* saveCSV to save data into csv format to disk
* Merge and order data sets
* Extract mean and standard deviations using grep func
* Use plyr library to create tidy data and save to disk

**# only\_mean\_std.csv #** **Variables**

* ID
* Activity
* tBodyAcc-std()-X
* tBodyAcc-std()-Y
* tBodyAcc-std()-Z
* tGravityAcc-std()-X
* tGravityAcc-std()-Y
* tGravityAcc-std()-Z
* tBodyAccJerk-std()-X
* tBodyAccJerk-std()-Y
* tBodyAccJerk-std()-Z
* tBodyGyro-std()-X
* tBodyGyro-std()-Y
* tBodyGyro-std()-Z
* tBodyGyroJerk-std()-X
* tBodyGyroJerk-std()-Y
* tBodyGyroJerk-std()-Z
* tBodyAccMag-std()
* tGravityAccMag-std()
* tBodyAccJerkMag-std()
* tBodyGyroMag-std()
* tBodyGyroJerkMag-std()
* fBodyAcc-std()-X
* fBodyAcc-std()-Y
* fBodyAcc-std()-Z
* fBodyAccJerk-std()-X
* fBodyAccJerk-std()-Y
* fBodyAccJerk-std()-Z
* fBodyGyro-std()-X
* fBodyGyro-std()-Y
* fBodyGyro-std()-Z
* fBodyAccMag-std()
* fBodyBodyAccJerkMag-std()
* fBodyBodyGyroMag-std()
* fBodyBodyGyroJerkMag-std()
* tBodyAcc-mean()-X
* tBodyAcc-mean()-Y
* tBodyAcc-mean()-Z
* tGravityAcc-mean()-X
* tGravityAcc-mean()-Y
* tGravityAcc-mean()-Z
* tBodyAccJerk-mean()-X
* tBodyAccJerk-mean()-Y
* tBodyAccJerk-mean()-Z
* tBodyGyro-mean()-X
* tBodyGyro-mean()-Y
* tBodyGyro-mean()-Z
* tBodyGyroJerk-mean()-X
* tBodyGyroJerk-mean()-Y
* tBodyGyroJerk-mean()-Z
* tBodyAccMag-mean()
* tGravityAccMag-mean()
* tBodyAccJerkMag-mean()
* tBodyGyroMag-mean()
* tBodyGyroJerkMag-mean()
* fBodyAcc-mean()-X
* fBodyAcc-mean()-Y
* fBodyAcc-mean()-Z
* fBodyAcc-meanFreq()-X
* fBodyAcc-meanFreq()-Y
* fBodyAcc-meanFreq()-Z
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* fBodyAccJerk-mean()-Y
* fBodyAccJerk-mean()-Z
* fBodyAccJerk-meanFreq()-X
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* fBodyGyro-mean()-Z
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* fBodyGyro-meanFreq()-Y
* fBodyGyro-meanFreq()-Z
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* fBodyBodyAccJerkMag-meanFreq()
* fBodyBodyGyroMag-mean()
* fBodyBodyGyroMag-meanFreq()
* fBodyBodyGyroJerkMag-mean()
* fBodyBodyGyroJerkMag-meanFreq()

**# tidyDS.csv #** **Variables**

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* tBodyAcc-mean()-Y
* tBodyAcc-mean()-Z
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* tBodyAcc-max()-Z
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* tBodyAcc-min()-Y
* tBodyAcc-min()-Z
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* tBodyAcc-energy()-Z
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* tBodyAcc-iqr()-Z
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* tBodyAcc-entropy()-Z
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* tGravityAcc-energy()-Z
* tGravityAcc-iqr()-X
* tGravityAcc-iqr()-Y
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* tBodyAccMag-min()
* tBodyAccMag-sma()
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* tBodyAccMag-entropy()
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* tBodyAccMag-arCoeff()2
* tBodyAccMag-arCoeff()3
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* tGravityAccMag-mad()
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* tGravityAccMag-min()
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* tBodyGyroMag-mad()
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* fBodyAcc-iqr()-Y
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* fBodyAcc-entropy()-Z
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* fBodyAcc-maxInds-Z
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* fBodyAcc-meanFreq()-Y
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* fBodyAcc-kurtosis()-X
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* fBodyAcc-kurtosis()-Y
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* fBodyGyro-energy()-Z
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* fBodyGyro-bandsEnergy()-57,64.2
* fBodyGyro-bandsEnergy()-1,16.2
* fBodyGyro-bandsEnergy()-17,32.2
* fBodyGyro-bandsEnergy()-33,48.2
* fBodyGyro-bandsEnergy()-49,64.2
* fBodyGyro-bandsEnergy()-1,24.2
* fBodyGyro-bandsEnergy()-25,48.2
* fBodyAccMag-mean()
* fBodyAccMag-std()
* fBodyAccMag-mad()
* fBodyAccMag-max()
* fBodyAccMag-min()
* fBodyAccMag-sma()
* fBodyAccMag-energy()
* fBodyAccMag-iqr()
* fBodyAccMag-entropy()
* fBodyAccMag-maxInds
* fBodyAccMag-meanFreq()
* fBodyAccMag-skewness()
* fBodyAccMag-kurtosis()
* fBodyBodyAccJerkMag-mean()
* fBodyBodyAccJerkMag-std()
* fBodyBodyAccJerkMag-mad()
* fBodyBodyAccJerkMag-max()
* fBodyBodyAccJerkMag-min()
* fBodyBodyAccJerkMag-sma()
* fBodyBodyAccJerkMag-energy()
* fBodyBodyAccJerkMag-iqr()
* fBodyBodyAccJerkMag-entropy()
* fBodyBodyAccJerkMag-maxInds
* fBodyBodyAccJerkMag-meanFreq()
* fBodyBodyAccJerkMag-skewness()
* fBodyBodyAccJerkMag-kurtosis()
* fBodyBodyGyroMag-mean()
* fBodyBodyGyroMag-std()
* fBodyBodyGyroMag-mad()
* fBodyBodyGyroMag-max()
* fBodyBodyGyroMag-min()
* fBodyBodyGyroMag-sma()
* fBodyBodyGyroMag-energy()
* fBodyBodyGyroMag-iqr()
* fBodyBodyGyroMag-entropy()
* fBodyBodyGyroMag-maxInds
* fBodyBodyGyroMag-meanFreq()
* fBodyBodyGyroMag-skewness()
* fBodyBodyGyroMag-kurtosis()
* fBodyBodyGyroJerkMag-mean()
* fBodyBodyGyroJerkMag-std()
* fBodyBodyGyroJerkMag-mad()
* fBodyBodyGyroJerkMag-max()
* fBodyBodyGyroJerkMag-min()
* fBodyBodyGyroJerkMag-sma()
* fBodyBodyGyroJerkMag-energy()
* fBodyBodyGyroJerkMag-iqr()
* fBodyBodyGyroJerkMag-entropy()
* fBodyBodyGyroJerkMag-maxInds
* fBodyBodyGyroJerkMag-meanFreq()
* fBodyBodyGyroJerkMag-skewness()
* fBodyBodyGyroJerkMag-kurtosis()
* angle(tBodyAccMean,gravity)
* angle(tBodyAccJerkMean),gravityMean)
* angle(tBodyGyroMean,gravityMean)
* angle(tBodyGyroJerkMean,gravityMean)
* angle(X,gravityMean)
* angle(Y,gravityMean)
* angle(Z,gravityMean)