

## Getting and Cleaning Data - Final Project

Codebook for reference of variables created and exported by Getting and Cleaning Data

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**Summary: This codebook will explain the resulting datasets after running the corresponding run\_analysis.R script**

Data [data table]	<p>This is similar to the original dataset given for this assignment except for the following changes:</p> <ul style="list-style-type: none"><li>Train and Test figures are merged into one data frame for all values in both data frames</li><li>Columns in the data set have been filtered to only include std deviation and mean variables</li><li>Variable names are stripped of "()", and "-" is replaced by "_"</li><li>Variable names are also made more readable by changing abbreviations with their real meaning (example "t" becomes "time")</li><li>Columns for subject (person in test gear) and activity (what they're doing when measured, such as STANDING, SITTING, etc.) are added to the first two columns of the data frame</li><li>The class of the values in the data table is dbl</li><li>Contains 10299 observations of 81 variables</li><li>All values are normalized between -1 and 1 and are double floating point values</li></ul>
tidyData [data table]	<p>This is very similar to 'Data' described above, except the rows are aggregated based on subject and activity to create a mean for each subject-activity value</p> <ul style="list-style-type: none"><li>Contains 180 observations of 81 variables</li><li>This dataset is output to a file called tidyData.txt</li><li>All values are normalized between -1 and 1 and are double floating point values</li></ul>
path_rf	<p>This is the path to the ./Data folder in which all of these datasets should be built</p>
Missing Data	<p>There is no missing data in any of the activity data fields</p>
More information	<p>Can be found at:</p> <p><a href="http://archive.ics.uci.edu/ml/datasets/Human+Activity+Recognition+Using+Smartphones">http://archive.ics.uci.edu/ml/datasets/Human+Activity+Recognition+Using+Smartphones</a></p>