Getting and Cleaning Data Project

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Introduction

- 1. Merges the training and the test sets to create one data set.
- 2. Extracts only the measurements on the mean and standard deviation for each measurement.
- 3. Uses descriptive activity names to name the activities in the data set
- 4. Appropriately labels the data set with descriptive variable names.
- 5. From the data set in step 4, creates a second, independent tidy data set with the average of each variable for each activity and each subject.

Load Packages and get the Data

```
packages <- c("data.table", "reshape2")</pre>
sapply(packages, require, character.only=TRUE, quietly=TRUE)
##
## Attaching package: 'reshape2'
## The following objects are masked from 'package:data.table':
##
##
       dcast, melt
## data.table
                reshape2
         TRUE.
                    TRUE
##
path <- getwd()
url <- "https://d396qusza40orc.cloudfront.net/getdata%2Fprojectfiles%2FUCI%20HAR%20Dataset.zip"
download.file(url, file.path(path, "dataFiles.zip"))
unzip(zipfile = "dataFiles.zip")
```

Load activity labels + features

Load train datasets

Load test datasets

merge datasets

```
combined <- rbind(train, test)</pre>
```

Convert classLabels to activityName basically. More explicit.