**Codebook**

**Summary of tidy data set:**

* Only extracted the measurements on the mean and standard deviation for each measurement.
  + mean(): Mean value
  + std(): Standard deviation
* Contains 180 rows and 82 columns.
* Each measurement is averaged based on each subject and each activity.
* Activity column has 6 types as listed below.

1. LAYING
2. SITTING
3. STANDING
4. WALKING
5. WALKING\_DOWNSTAIRS
6. WALKING\_UPSTAIRS

**Measurements (from column4 and onwards):**

1. activityType
2. subjectID
3. activityID
4. tBodyAcc-mean()-X
5. tBodyAcc-mean()-Y
6. tBodyAcc-mean()-Z
7. tBodyAcc-std()-X
8. tBodyAcc-std()-Y
9. tBodyAcc-std()-Z
10. tGravityAcc-mean()-X
11. tGravityAcc-mean()-Y
12. tGravityAcc-mean()-Z
13. tGravityAcc-std()-X
14. tGravityAcc-std()-Y
15. tGravityAcc-std()-Z
16. tBodyAccJerk-mean()-X
17. tBodyAccJerk-mean()-Y
18. tBodyAccJerk-mean()-Z
19. tBodyAccJerk-std()-X
20. tBodyAccJerk-std()-Y
21. tBodyAccJerk-std()-Z
22. tBodyGyro-mean()-X
23. tBodyGyro-mean()-Y
24. tBodyGyro-mean()-Z
25. tBodyGyro-std()-X
26. tBodyGyro-std()-Y
27. tBodyGyro-std()-Z
28. tBodyGyroJerk-mean()-X
29. tBodyGyroJerk-mean()-Y
30. tBodyGyroJerk-mean()-Z
31. tBodyGyroJerk-std()-X
32. tBodyGyroJerk-std()-Y
33. tBodyGyroJerk-std()-Z
34. tBodyAccMag-mean()
35. tBodyAccMag-std()
36. tGravityAccMag-mean()
37. tGravityAccMag-std()
38. tBodyAccJerkMag-mean()
39. tBodyAccJerkMag-std()
40. tBodyGyroMag-mean()
41. tBodyGyroMag-std()
42. tBodyGyroJerkMag-mean()
43. tBodyGyroJerkMag-std()
44. fBodyAcc-mean()-X
45. fBodyAcc-mean()-Y
46. fBodyAcc-mean()-Z
47. fBodyAcc-std()-X
48. fBodyAcc-std()-Y
49. fBodyAcc-std()-Z
50. fBodyAcc-meanFreq()-X
51. fBodyAcc-meanFreq()-Y
52. fBodyAcc-meanFreq()-Z
53. fBodyAccJerk-mean()-X
54. fBodyAccJerk-mean()-Y
55. fBodyAccJerk-mean()-Z
56. fBodyAccJerk-std()-X
57. fBodyAccJerk-std()-Y
58. fBodyAccJerk-std()-Z
59. fBodyAccJerk-meanFreq()-X
60. fBodyAccJerk-meanFreq()-Y
61. fBodyAccJerk-meanFreq()-Z
62. fBodyGyro-mean()-X
63. fBodyGyro-mean()-Y
64. fBodyGyro-mean()-Z
65. fBodyGyro-std()-X
66. fBodyGyro-std()-Y
67. fBodyGyro-std()-Z
68. fBodyGyro-meanFreq()-X
69. fBodyGyro-meanFreq()-Y
70. fBodyGyro-meanFreq()-Z
71. fBodyAccMag-mean()
72. fBodyAccMag-std()
73. fBodyAccMag-meanFreq()
74. fBodyBodyAccJerkMag-mean()
75. fBodyBodyAccJerkMag-std()
76. fBodyBodyAccJerkMag-meanFreq()
77. fBodyBodyGyroMag-mean()
78. fBodyBodyGyroMag-std()
79. fBodyBodyGyroMag-meanFreq()
80. fBodyBodyGyroJerkMag-mean()
81. fBodyBodyGyroJerkMag-std()
82. fBodyBodyGyroJerkMag-meanFreq()