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Summary

Code book contains input data columns , transformations used , final tidy data columns and type

Input Data

Features:

contains 561 columns

1 tBodyAcc-mean()-X

2 tBodyAcc-mean()-Y

3 tBodyAcc-mean()-Z

4 tBodyAcc-std()-X

5 tBodyAcc-std()-Y

6 tBodyAcc-std()-Z

7 tBodyAcc-mad()-X

8 tBodyAcc-mad()-Y

9 tBodyAcc-mad()-Z

10 tBodyAcc-max()-X

11 tBodyAcc-max()-Y

12 tBodyAcc-max()-Z

13 tBodyAcc-min()-X
14 tBodyAcc-min()-Y
15 tBodyAcc-min()-Z
16 tBodyAcc-sma()
17 tBodyAcc-energy()-X
18 tBodyAcc-energy()-Y
19 tBodyAcc-energy()-Z
20 tBodyAcc-iqr()-X
21 tBodyAcc-iqr()-Y
22 tBodyAcc-iqr()-Z
23 tBodyAcc-entropy()-X
24 tBodyAcc-entropy()-Y
25 tBodyAcc-entropy()-Z
26 tBodyAcc-arCoeff()-X,1
27 tBodyAcc-arCoeff()-X,2
28 tBodyAcc-arCoeff()-X,3
29 tBodyAcc-arCoeff()-X,4
30 tBodyAcc-arCoeff()-Y,1
31 tBodyAcc-arCoeff()-Y,2
32 tBodyAcc-arCoeff()-Y,3
33 tBodyAcc-arCoeff()-Y,4
34 tBodyAcc-arCoeff()-Z,1
35 tBodyAcc-arCoeff()-Z,2
36 tBodyAcc-arCoeff()-Z,3
37 tBodyAcc-arCoeff()-Z,4

38 tBodyAcc-correlation()-X,Y

39 tBodyAcc-correlation()-X,Z

40 tBodyAcc-correlation()-Y,Z

41 tGravityAcc-mean()-X

42 tGravityAcc-mean()-Y

43 tGravityAcc-mean()-Z

44 tGravityAcc-std()-X

45 tGravityAcc-std()-Y

46 tGravityAcc-std()-Z

47 tGravityAcc-mad()-X

48 tGravityAcc-mad()-Y

49 tGravityAcc-mad()-Z

50 tGravityAcc-max()-X

51 tGravityAcc-max()-Y

52 tGravityAcc-max()-Z

53 tGravityAcc-min()-X

54 tGravityAcc-min()-Y

55 tGravityAcc-min()-Z

56 tGravityAcc-sma()

57 tGravityAcc-energy()-X

58 tGravityAcc-energy()-Y

59 tGravityAcc-energy()-Z

60 tGravityAcc-iqr()-X

61 tGravityAcc-iqr()-Y

62 tGravityAcc-iqr()-Z

63 tGravityAcc-entropy()-X
64 tGravityAcc-entropy()-Y
65 tGravityAcc-entropy()-Z
66 tGravityAcc-arCoeff()-X,1
67 tGravityAcc-arCoeff()-X,2
68 tGravityAcc-arCoeff()-X,3
69 tGravityAcc-arCoeff()-X,4
70 tGravityAcc-arCoeff()-Y,1
71 tGravityAcc-arCoeff()-Y,2
72 tGravityAcc-arCoeff()-Y,3
73 tGravityAcc-arCoeff()-Y,4
74 tGravityAcc-arCoeff()-Z,1
75 tGravityAcc-arCoeff()-Z,2
76 tGravityAcc-arCoeff()-Z,3
77 tGravityAcc-arCoeff()-Z,4
78 tGravityAcc-correlation()-X,Y
79 tGravityAcc-correlation()-X,Z
80 tGravityAcc-correlation()-Y,Z
81 tBodyAccJerk-mean()-X
82 tBodyAccJerk-mean()-Y
83 tBodyAccJerk-mean()-Z
84 tBodyAccJerk-std()-X
85 tBodyAccJerk-std()-Y
86 tBodyAccJerk-std()-Z
87 tBodyAccJerk-mad()-X

88 tBodyAccJerk-mad()-Y
89 tBodyAccJerk-mad()-Z
90 tBodyAccJerk-max()-X
91 tBodyAccJerk-max()-Y
92 tBodyAccJerk-max()-Z
93 tBodyAccJerk-min()-X
94 tBodyAccJerk-min()-Y
95 tBodyAccJerk-min()-Z
96 tBodyAccJerk-sma()
97 tBodyAccJerk-energy()-X
98 tBodyAccJerk-energy()-Y
99 tBodyAccJerk-energy()-Z
100 tBodyAccJerk-iqr()-X
101 tBodyAccJerk-iqr()-Y
102 tBodyAccJerk-iqr()-Z
103 tBodyAccJerk-entropy()-X
104 tBodyAccJerk-entropy()-Y
105 tBodyAccJerk-entropy()-Z
106 tBodyAccJerk-arCoeff()-X,1
107 tBodyAccJerk-arCoeff()-X,2
108 tBodyAccJerk-arCoeff()-X,3
109 tBodyAccJerk-arCoeff()-X,4
110 tBodyAccJerk-arCoeff()-Y,1
111 tBodyAccJerk-arCoeff()-Y,2
112 tBodyAccJerk-arCoeff()-Y,3

113 tBodyAccJerk-arCoeff()-Y,4
114 tBodyAccJerk-arCoeff()-Z,1
115 tBodyAccJerk-arCoeff()-Z,2
116 tBodyAccJerk-arCoeff()-Z,3
117 tBodyAccJerk-arCoeff()-Z,4
118 tBodyAccJerk-correlation()-X,Y
119 tBodyAccJerk-correlation()-X,Z
120 tBodyAccJerk-correlation()-Y,Z
121 tBodyGyro-mean()-X
122 tBodyGyro-mean()-Y
123 tBodyGyro-mean()-Z
124 tBodyGyro-std()-X
125 tBodyGyro-std()-Y
126 tBodyGyro-std()-Z
127 tBodyGyro-mad()-X
128 tBodyGyro-mad()-Y
129 tBodyGyro-mad()-Z
130 tBodyGyro-max()-X
131 tBodyGyro-max()-Y
132 tBodyGyro-max()-Z
133 tBodyGyro-min()-X
134 tBodyGyro-min()-Y
135 tBodyGyro-min()-Z
136 tBodyGyro-sma()
137 tBodyGyro-energy()-X

138 tBodyGyro-energy()-Y
139 tBodyGyro-energy()-Z
140 tBodyGyro-iqr()-X
141 tBodyGyro-iqr()-Y
142 tBodyGyro-iqr()-Z
143 tBodyGyro-entropy()-X
144 tBodyGyro-entropy()-Y
145 tBodyGyro-entropy()-Z
146 tBodyGyro-arCoeff()-X,1
147 tBodyGyro-arCoeff()-X,2
148 tBodyGyro-arCoeff()-X,3
149 tBodyGyro-arCoeff()-X,4
150 tBodyGyro-arCoeff()-Y,1
151 tBodyGyro-arCoeff()-Y,2
152 tBodyGyro-arCoeff()-Y,3
153 tBodyGyro-arCoeff()-Y,4
154 tBodyGyro-arCoeff()-Z,1
155 tBodyGyro-arCoeff()-Z,2
156 tBodyGyro-arCoeff()-Z,3
157 tBodyGyro-arCoeff()-Z,4
158 tBodyGyro-correlation()-X,Y
159 tBodyGyro-correlation()-X,Z
160 tBodyGyro-correlation()-Y,Z
161 tBodyGyroJerk-mean()-X
162 tBodyGyroJerk-mean()-Y

163 tBodyGyroJerk-mean()-Z
164 tBodyGyroJerk-std()-X
165 tBodyGyroJerk-std()-Y
166 tBodyGyroJerk-std()-Z
167 tBodyGyroJerk-mad()-X
168 tBodyGyroJerk-mad()-Y
169 tBodyGyroJerk-mad()-Z
170 tBodyGyroJerk-max()-X
171 tBodyGyroJerk-max()-Y
172 tBodyGyroJerk-max()-Z
173 tBodyGyroJerk-min()-X
174 tBodyGyroJerk-min()-Y
175 tBodyGyroJerk-min()-Z
176 tBodyGyroJerk-sma()
177 tBodyGyroJerk-energy()-X
178 tBodyGyroJerk-energy()-Y
179 tBodyGyroJerk-energy()-Z
180 tBodyGyroJerk-iqr()-X
181 tBodyGyroJerk-iqr()-Y
182 tBodyGyroJerk-iqr()-Z
183 tBodyGyroJerk-entropy()-X
184 tBodyGyroJerk-entropy()-Y
185 tBodyGyroJerk-entropy()-Z
186 tBodyGyroJerk-arCoeff()-X,1
187 tBodyGyroJerk-arCoeff()-X,2

188 tBodyGyroJerk-arCoeff()-X,3
189 tBodyGyroJerk-arCoeff()-X,4
190 tBodyGyroJerk-arCoeff()-Y,1
191 tBodyGyroJerk-arCoeff()-Y,2
192 tBodyGyroJerk-arCoeff()-Y,3
193 tBodyGyroJerk-arCoeff()-Y,4
194 tBodyGyroJerk-arCoeff()-Z,1
195 tBodyGyroJerk-arCoeff()-Z,2
196 tBodyGyroJerk-arCoeff()-Z,3
197 tBodyGyroJerk-arCoeff()-Z,4
198 tBodyGyroJerk-correlation()-X,Y
199 tBodyGyroJerk-correlation()-X,Z
200 tBodyGyroJerk-correlation()-Y,Z
201 tBodyAccMag-mean()
202 tBodyAccMag-std()
203 tBodyAccMag-mad()
204 tBodyAccMag-max()
205 tBodyAccMag-min()
206 tBodyAccMag-sma()
207 tBodyAccMag-energy()
208 tBodyAccMag-iqr()
209 tBodyAccMag-entropy()
210 tBodyAccMag-arCoeff()1
211 tBodyAccMag-arCoeff()2
212 tBodyAccMag-arCoeff()3

213 tBodyAccMag-arCoeff()4
214 tGravityAccMag-mean()
215 tGravityAccMag-std()
216 tGravityAccMag-mad()
217 tGravityAccMag-max()
218 tGravityAccMag-min()
219 tGravityAccMag-sma()
220 tGravityAccMag-energy()
221 tGravityAccMag-iqr()
222 tGravityAccMag-entropy()
223 tGravityAccMag-arCoeff()1
224 tGravityAccMag-arCoeff()2
225 tGravityAccMag-arCoeff()3
226 tGravityAccMag-arCoeff()4
227 tBodyAccJerkMag-mean()
228 tBodyAccJerkMag-std()
229 tBodyAccJerkMag-mad()
230 tBodyAccJerkMag-max()
231 tBodyAccJerkMag-min()
232 tBodyAccJerkMag-sma()
233 tBodyAccJerkMag-energy()
234 tBodyAccJerkMag-iqr()
235 tBodyAccJerkMag-entropy()
236 tBodyAccJerkMag-arCoeff()1
237 tBodyAccJerkMag-arCoeff()2

238 tBodyAccJerkMag-arCoeff()3
239 tBodyAccJerkMag-arCoeff()4
240 tBodyGyroMag-mean()
241 tBodyGyroMag-std()
242 tBodyGyroMag-mad()
243 tBodyGyroMag-max()
244 tBodyGyroMag-min()
245 tBodyGyroMag-sma()
246 tBodyGyroMag-energy()
247 tBodyGyroMag-iqr()
248 tBodyGyroMag-entropy()
249 tBodyGyroMag-arCoeff()1
250 tBodyGyroMag-arCoeff()2
251 tBodyGyroMag-arCoeff()3
252 tBodyGyroMag-arCoeff()4
253 tBodyGyroJerkMag-mean()
254 tBodyGyroJerkMag-std()
255 tBodyGyroJerkMag-mad()
256 tBodyGyroJerkMag-max()
257 tBodyGyroJerkMag-min()
258 tBodyGyroJerkMag-sma()
259 tBodyGyroJerkMag-energy()
260 tBodyGyroJerkMag-iqr()
261 tBodyGyroJerkMag-entropy()
262 tBodyGyroJerkMag-arCoeff()1

263 tBodyGyroJerkMag-arCoeff()2

264 tBodyGyroJerkMag-arCoeff()3

265 tBodyGyroJerkMag-arCoeff()4

266 fBodyAcc-mean()-X

267 fBodyAcc-mean()-Y

268 fBodyAcc-mean()-Z

269 fBodyAcc-std()-X

270 fBodyAcc-std()-Y

271 fBodyAcc-std()-Z

272 fBodyAcc-mad()-X

273 fBodyAcc-mad()-Y

274 fBodyAcc-mad()-Z

275 fBodyAcc-max()-X

276 fBodyAcc-max()-Y

277 fBodyAcc-max()-Z

278 fBodyAcc-min()-X

279 fBodyAcc-min()-Y

280 fBodyAcc-min()-Z

281 fBodyAcc-sma()

282 fBodyAcc-energy()-X

283 fBodyAcc-energy()-Y

284 fBodyAcc-energy()-Z

285 fBodyAcc-iqr()-X

286 fBodyAcc-iqr()-Y

287 fBodyAcc-iqr()-Z

288 fBodyAcc-entropy()-X
289 fBodyAcc-entropy()-Y
290 fBodyAcc-entropy()-Z
291 fBodyAcc-maxInds-X
292 fBodyAcc-maxInds-Y
293 fBodyAcc-maxInds-Z
294 fBodyAcc-meanFreq()-X
295 fBodyAcc-meanFreq()-Y
296 fBodyAcc-meanFreq()-Z
297 fBodyAcc-skewness()-X
298 fBodyAcc-kurtosis()-X
299 fBodyAcc-skewness()-Y
300 fBodyAcc-kurtosis()-Y
301 fBodyAcc-skewness()-Z
302 fBodyAcc-kurtosis()-Z
303 fBodyAcc-bandsEnergy()-1,8
304 fBodyAcc-bandsEnergy()-9,16
305 fBodyAcc-bandsEnergy()-17,24
306 fBodyAcc-bandsEnergy()-25,32
307 fBodyAcc-bandsEnergy()-33,40
308 fBodyAcc-bandsEnergy()-41,48
309 fBodyAcc-bandsEnergy()-49,56
310 fBodyAcc-bandsEnergy()-57,64
311 fBodyAcc-bandsEnergy()-1,16
312 fBodyAcc-bandsEnergy()-17,32

313 fBodyAcc-bandsEnergy()-33,48
314 fBodyAcc-bandsEnergy()-49,64
315 fBodyAcc-bandsEnergy()-1,24
316 fBodyAcc-bandsEnergy()-25,48
317 fBodyAcc-bandsEnergy()-1,8
318 fBodyAcc-bandsEnergy()-9,16
319 fBodyAcc-bandsEnergy()-17,24
320 fBodyAcc-bandsEnergy()-25,32
321 fBodyAcc-bandsEnergy()-33,40
322 fBodyAcc-bandsEnergy()-41,48
323 fBodyAcc-bandsEnergy()-49,56
324 fBodyAcc-bandsEnergy()-57,64
325 fBodyAcc-bandsEnergy()-1,16
326 fBodyAcc-bandsEnergy()-17,32
327 fBodyAcc-bandsEnergy()-33,48
328 fBodyAcc-bandsEnergy()-49,64
329 fBodyAcc-bandsEnergy()-1,24
330 fBodyAcc-bandsEnergy()-25,48
331 fBodyAcc-bandsEnergy()-1,8
332 fBodyAcc-bandsEnergy()-9,16
333 fBodyAcc-bandsEnergy()-17,24
334 fBodyAcc-bandsEnergy()-25,32
335 fBodyAcc-bandsEnergy()-33,40
336 fBodyAcc-bandsEnergy()-41,48
337 fBodyAcc-bandsEnergy()-49,56

338 fBodyAcc-bandsEnergy()-57,64
339 fBodyAcc-bandsEnergy()-1,16
340 fBodyAcc-bandsEnergy()-17,32
341 fBodyAcc-bandsEnergy()-33,48
342 fBodyAcc-bandsEnergy()-49,64
343 fBodyAcc-bandsEnergy()-1,24
344 fBodyAcc-bandsEnergy()-25,48
345 fBodyAccJerk-mean()-X
346 fBodyAccJerk-mean()-Y
347 fBodyAccJerk-mean()-Z
348 fBodyAccJerk-std()-X
349 fBodyAccJerk-std()-Y
350 fBodyAccJerk-std()-Z
351 fBodyAccJerk-mad()-X
352 fBodyAccJerk-mad()-Y
353 fBodyAccJerk-mad()-Z
354 fBodyAccJerk-max()-X
355 fBodyAccJerk-max()-Y
356 fBodyAccJerk-max()-Z
357 fBodyAccJerk-min()-X
358 fBodyAccJerk-min()-Y
359 fBodyAccJerk-min()-Z
360 fBodyAccJerk-sma()
361 fBodyAccJerk-energy()-X
362 fBodyAccJerk-energy()-Y

363 fBodyAccJerk-energy()-Z
364 fBodyAccJerk-iqr()-X
365 fBodyAccJerk-iqr()-Y
366 fBodyAccJerk-iqr()-Z
367 fBodyAccJerk-entropy()-X
368 fBodyAccJerk-entropy()-Y
369 fBodyAccJerk-entropy()-Z
370 fBodyAccJerk-maxInds-X
371 fBodyAccJerk-maxInds-Y
372 fBodyAccJerk-maxInds-Z
373 fBodyAccJerk-meanFreq()-X
374 fBodyAccJerk-meanFreq()-Y
375 fBodyAccJerk-meanFreq()-Z
376 fBodyAccJerk-skewness()-X
377 fBodyAccJerk-kurtosis()-X
378 fBodyAccJerk-skewness()-Y
379 fBodyAccJerk-kurtosis()-Y
380 fBodyAccJerk-skewness()-Z
381 fBodyAccJerk-kurtosis()-Z
382 fBodyAccJerk-bandsEnergy()-1,8
383 fBodyAccJerk-bandsEnergy()-9,16
384 fBodyAccJerk-bandsEnergy()-17,24
385 fBodyAccJerk-bandsEnergy()-25,32
386 fBodyAccJerk-bandsEnergy()-33,40
387 fBodyAccJerk-bandsEnergy()-41,48

388 fBodyAccJerk-bandsEnergy()-49,56
389 fBodyAccJerk-bandsEnergy()-57,64
390 fBodyAccJerk-bandsEnergy()-1,16
391 fBodyAccJerk-bandsEnergy()-17,32
392 fBodyAccJerk-bandsEnergy()-33,48
393 fBodyAccJerk-bandsEnergy()-49,64
394 fBodyAccJerk-bandsEnergy()-1,24
395 fBodyAccJerk-bandsEnergy()-25,48
396 fBodyAccJerk-bandsEnergy()-1,8
397 fBodyAccJerk-bandsEnergy()-9,16
398 fBodyAccJerk-bandsEnergy()-17,24
399 fBodyAccJerk-bandsEnergy()-25,32
400 fBodyAccJerk-bandsEnergy()-33,40
401 fBodyAccJerk-bandsEnergy()-41,48
402 fBodyAccJerk-bandsEnergy()-49,56
403 fBodyAccJerk-bandsEnergy()-57,64
404 fBodyAccJerk-bandsEnergy()-1,16
405 fBodyAccJerk-bandsEnergy()-17,32
406 fBodyAccJerk-bandsEnergy()-33,48
407 fBodyAccJerk-bandsEnergy()-49,64
408 fBodyAccJerk-bandsEnergy()-1,24
409 fBodyAccJerk-bandsEnergy()-25,48
410 fBodyAccJerk-bandsEnergy()-1,8
411 fBodyAccJerk-bandsEnergy()-9,16
412 fBodyAccJerk-bandsEnergy()-17,24

413 fBodyAccJerk-bandsEnergy()-25,32
414 fBodyAccJerk-bandsEnergy()-33,40
415 fBodyAccJerk-bandsEnergy()-41,48
416 fBodyAccJerk-bandsEnergy()-49,56
417 fBodyAccJerk-bandsEnergy()-57,64
418 fBodyAccJerk-bandsEnergy()-1,16
419 fBodyAccJerk-bandsEnergy()-17,32
420 fBodyAccJerk-bandsEnergy()-33,48
421 fBodyAccJerk-bandsEnergy()-49,64
422 fBodyAccJerk-bandsEnergy()-1,24
423 fBodyAccJerk-bandsEnergy()-25,48
424 fBodyGyro-mean()-X
425 fBodyGyro-mean()-Y
426 fBodyGyro-mean()-Z
427 fBodyGyro-std()-X
428 fBodyGyro-std()-Y
429 fBodyGyro-std()-Z
430 fBodyGyro-mad()-X
431 fBodyGyro-mad()-Y
432 fBodyGyro-mad()-Z
433 fBodyGyro-max()-X
434 fBodyGyro-max()-Y
435 fBodyGyro-max()-Z
436 fBodyGyro-min()-X
437 fBodyGyro-min()-Y

438 fBodyGyro-min()-Z
439 fBodyGyro-sma()
440 fBodyGyro-energy()-X
441 fBodyGyro-energy()-Y
442 fBodyGyro-energy()-Z
443 fBodyGyro-iqr()-X
444 fBodyGyro-iqr()-Y
445 fBodyGyro-iqr()-Z
446 fBodyGyro-entropy()-X
447 fBodyGyro-entropy()-Y
448 fBodyGyro-entropy()-Z
449 fBodyGyro-maxInds-X
450 fBodyGyro-maxInds-Y
451 fBodyGyro-maxInds-Z
452 fBodyGyro-meanFreq()-X
453 fBodyGyro-meanFreq()-Y
454 fBodyGyro-meanFreq()-Z
455 fBodyGyro-skewness()-X
456 fBodyGyro-kurtosis()-X
457 fBodyGyro-skewness()-Y
458 fBodyGyro-kurtosis()-Y
459 fBodyGyro-skewness()-Z
460 fBodyGyro-kurtosis()-Z
461 fBodyGyro-bandsEnergy()-1,8
462 fBodyGyro-bandsEnergy()-9,16

463 fBodyGyro-bandsEnergy()-17,24
464 fBodyGyro-bandsEnergy()-25,32
465 fBodyGyro-bandsEnergy()-33,40
466 fBodyGyro-bandsEnergy()-41,48
467 fBodyGyro-bandsEnergy()-49,56
468 fBodyGyro-bandsEnergy()-57,64
469 fBodyGyro-bandsEnergy()-1,16
470 fBodyGyro-bandsEnergy()-17,32
471 fBodyGyro-bandsEnergy()-33,48
472 fBodyGyro-bandsEnergy()-49,64
473 fBodyGyro-bandsEnergy()-1,24
474 fBodyGyro-bandsEnergy()-25,48
475 fBodyGyro-bandsEnergy()-1,8
476 fBodyGyro-bandsEnergy()-9,16
477 fBodyGyro-bandsEnergy()-17,24
478 fBodyGyro-bandsEnergy()-25,32
479 fBodyGyro-bandsEnergy()-33,40
480 fBodyGyro-bandsEnergy()-41,48
481 fBodyGyro-bandsEnergy()-49,56
482 fBodyGyro-bandsEnergy()-57,64
483 fBodyGyro-bandsEnergy()-1,16
484 fBodyGyro-bandsEnergy()-17,32
485 fBodyGyro-bandsEnergy()-33,48
486 fBodyGyro-bandsEnergy()-49,64
487 fBodyGyro-bandsEnergy()-1,24

488 fBodyGyro-bandsEnergy()-25,48
489 fBodyGyro-bandsEnergy()-1,8
490 fBodyGyro-bandsEnergy()-9,16
491 fBodyGyro-bandsEnergy()-17,24
492 fBodyGyro-bandsEnergy()-25,32
493 fBodyGyro-bandsEnergy()-33,40
494 fBodyGyro-bandsEnergy()-41,48
495 fBodyGyro-bandsEnergy()-49,56
496 fBodyGyro-bandsEnergy()-57,64
497 fBodyGyro-bandsEnergy()-1,16
498 fBodyGyro-bandsEnergy()-17,32
499 fBodyGyro-bandsEnergy()-33,48
500 fBodyGyro-bandsEnergy()-49,64
501 fBodyGyro-bandsEnergy()-1,24
502 fBodyGyro-bandsEnergy()-25,48
503 fBodyAccMag-mean()
504 fBodyAccMag-std()
505 fBodyAccMag-mad()
506 fBodyAccMag-max()
507 fBodyAccMag-min()
508 fBodyAccMag-sma()
509 fBodyAccMag-energy()
510 fBodyAccMag-iqr()
511 fBodyAccMag-entropy()
512 fBodyAccMag-maxInds

513 fBodyAccMag-meanFreq()
514 fBodyAccMag-skewness()
515 fBodyAccMag-kurtosis()
516 fBodyBodyAccJerkMag-mean()
517 fBodyBodyAccJerkMag-std()
518 fBodyBodyAccJerkMag-mad()
519 fBodyBodyAccJerkMag-max()
520 fBodyBodyAccJerkMag-min()
521 fBodyBodyAccJerkMag-sma()
522 fBodyBodyAccJerkMag-energy()
523 fBodyBodyAccJerkMag-iqr()
524 fBodyBodyAccJerkMag-entropy()
525 fBodyBodyAccJerkMag-maxInds
526 fBodyBodyAccJerkMag-meanFreq()
527 fBodyBodyAccJerkMag-skewness()
528 fBodyBodyAccJerkMag-kurtosis()
529 fBodyBodyGyroMag-mean()
530 fBodyBodyGyroMag-std()
531 fBodyBodyGyroMag-mad()
532 fBodyBodyGyroMag-max()
533 fBodyBodyGyroMag-min()
534 fBodyBodyGyroMag-sma()
535 fBodyBodyGyroMag-energy()
536 fBodyBodyGyroMag-iqr()
537 fBodyBodyGyroMag-entropy()

538 fBodyBodyGyroMag-maxInds
539 fBodyBodyGyroMag-meanFreq()
540 fBodyBodyGyroMag-skewness()
541 fBodyBodyGyroMag-kurtosis()
542 fBodyBodyGyroJerkMag-mean()
543 fBodyBodyGyroJerkMag-std()
544 fBodyBodyGyroJerkMag-mad()
545 fBodyBodyGyroJerkMag-max()
546 fBodyBodyGyroJerkMag-min()
547 fBodyBodyGyroJerkMag-sma()
548 fBodyBodyGyroJerkMag-energy()
549 fBodyBodyGyroJerkMag-iqr()
550 fBodyBodyGyroJerkMag-entropy()
551 fBodyBodyGyroJerkMag-maxInds
552 fBodyBodyGyroJerkMag-meanFreq()
553 fBodyBodyGyroJerkMag-skewness()
554 fBodyBodyGyroJerkMag-kurtosis()
555 angle(tBodyAccMean,gravity)
556 angle(tBodyAccJerkMean),gravityMean)
557 angle(tBodyGyroMean,gravityMean)
558 angle(tBodyGyroJerkMean,gravityMean)
559 angle(X,gravityMean)
560 angle(Y,gravityMean)
561 angle(Z,gravityMean)

Activity Labels

1 WALKING

2 WALKING_UPSTAIRS

3 WALKING_DOWNSTAIRS

4 SITTING

5 STANDING

6 LAYING

Transformations used :

8 data sets consisting 3 from test , 3 from training and 2 common were combined along with column names derived from features . Standard R functions used

Data for mean , std deviations columns along with subject and activity label extracted

Data is summarized using group of subject and activity label

Final Tidy data

Tidy data set

Field Name	Type
Volunteer	: int
Activity	: chr
tBodyAcc-mean-X	: num
tBodyAcc-mean-Y	: num
tBodyAcc-mean-Z	: num
tGravityAcc-mean-X	: num
tGravityAcc-mean-Y	: num
tGravityAcc-mean-Z	: num
tBodyAccJerk-mean-X	: num

tBodyAccJerk-mean-Y : num
tBodyAccJerk-mean-Z : num
tBodyGyro-mean-X : num
tBodyGyro-mean-Y : num
tBodyGyro-mean-Z : num
tBodyGyroJerk-mean-X : num
tBodyGyroJerk-mean-Y : num
tBodyGyroJerk-mean-Z : num
tBodyAccMag-mean : num
tGravityAccMag-mean : num
tBodyAccJerkMag-mean : num
tBodyGyroMag-mean : num
tBodyGyroJerkMag-mean : num
fBodyAcc-mean-X : num
fBodyAcc-mean-Y : num
fBodyAcc-mean-Z : num
fBodyAccJerk-mean-X : num
fBodyAccJerk-mean-Y : num
fBodyAccJerk-mean-Z : num
fBodyGyro-mean-X : num
fBodyGyro-mean-Y : num
fBodyGyro-mean-Z : num
fBodyAccMag-mean : num
fBodyBodyAccJerkMag-mean : num
fBodyBodyGyroMag-mean : num

fBodyBodyGyroJerkMag-mean: num

tBodyAcc-std-X : num

tBodyAcc-std-Y : num

tBodyAcc-std-Z : num

tGravityAcc-std-X : num

tGravityAcc-std-Y : num

tGravityAcc-std-Z : num

tBodyAccJerk-std-X : num

tBodyAccJerk-std-Y : num

tBodyAccJerk-std-Z : num

tBodyGyro-std-X : num

tBodyGyro-std-Y : num

tBodyGyro-std-Z : num

tBodyGyroJerk-std-X : num

tBodyGyroJerk-std-Y : num

tBodyGyroJerk-std-Z : num

tBodyAccMag-std : num

tGravityAccMag-std : num

tBodyAccJerkMag-std : num

tBodyGyroMag-std : num

tBodyGyroJerkMag-std : num

fBodyAcc-std-X : num

fBodyAcc-std-Y : num

fBodyAcc-std-Z : num

fBodyAccJerk-std-X : num

fBodyAccJerk-std-Y : num

fBodyAccJerk-std-Z : num

fBodyGyro-std-X : num

fBodyGyro-std-Y : num

fBodyGyro-std-Z : num

fBodyAccMag-std : num

fBodyBodyAccJerkMag-std : num

fBodyBodyGyroMag-std : num

fBodyBodyGyroJerkMag-std : num