run\_analysis.R

les

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run\_analysis<-  
{  
 ##Read the test data X gives the measures for each variable  
 x<-read.table("./UCI HAR Dataset/test/X\_test.txt")  
 ##Read the test data Y gives a numberic value 1:6 for each activity   
 y<-read.table("./UCI HAR Dataset/test/Y\_test.txt")  
   
 ## Convert each of the numbers 1:6 to it description  
 attach(y)  
 y$V1[V1 == 1] <- "Walking"  
 y$V1[V1 == 2] <- "Walkingupstairs"  
 y$V1[V1 == 3] <- "Walkingdownstairs"  
 y$V1[V1 == 4] <- "sitting"  
 y$V1[V1 == 5] <- "standing"  
 y$V1[V1 == 6] <- "laying"  
 detach(y)  
 ##Read the subjects 1:30 match to the activities   
 s<-read.table("./UCI HAR Dataset/test/subject\_test.txt")  
   
 ##Merge each of the tables into a single table using cbind  
   
 test\_data1<-cbind(y,x)  
 test\_data<-cbind(s,test\_data1)  
   
 ##repeat the process to create a single data frame for the training data   
   
 ##Read the test data X gives the measures for each variable   
 x<-read.table("./UCI HAR Dataset/train/X\_train.txt")  
 ##Read the test data Y gives a numberic value 1:6 for each activity   
 y<-read.table("./UCI HAR Dataset/train/Y\_train.txt")  
   
 ## Convert each of the numbers 1:6 to it description  
 attach(y)  
 y$V1[V1 == 1] <- "Walking"  
 y$V1[V1 == 2] <- "Walkingupstairs"  
 y$V1[V1 == 3] <- "Walkingdownstairs"  
 y$V1[V1 == 4] <- "sitting"  
 y$V1[V1 == 5] <- "standing"  
 y$V1[V1 == 6] <- "laying"  
 detach(y)  
 ##Read the subjects 1:30 match to the activities   
 s<-read.table("./UCI HAR Dataset/train/subject\_train.txt")  
   
 ##Merge each of the tables into a single table using cbind  
 train\_data1<-cbind(y,x)  
 train\_data<-cbind(s,train\_data1)  
   
 ##Merge the training and test data into a single data frame  
   
 full\_data<-rbind(test\_data,train\_data)  
   
 ##Change the headings for each column to the name of the appropriate feature  
   
 names<-read.table("./UCI HAR Dataset/features.txt")  
 newnames<-as.character(names$V2)  
   
 ##To complete the data frame the first two columns need to be included Subject and Activity   
 sub\_act<-c("subject","activity")  
 variables<-c(sub\_act,newnames)  
   
 ##Complete the change for column names   
 names(full\_data)<-variables  
 names(full\_data)  
   
 ##Select out only the features which refer to mean and standard deviation   
 get<-grep("mean|std",names(full\_data))  
   
 ## create a Data Frame which only contains the mean and standard deviation of features  
 get1<-c(1:2,get)  
 get\_data<-full\_data[,get1]  
   
 ##Discovered that above also contains a feature meanFreq, these are to be removed   
   
 mf<-grep("meanFreq",names(get\_data))  
 mean.std<-get\_data[,-mf]  
   
 ##Final step, establish the mean of each variable for each activity and each subject using the plyr package, this needs to installed and loaded  
 ##called the tidy data "project\_tidy\_data  
 library(plyr)  
 project\_tidy\_data<-ddply(mean.std, .(subject,activity), numcolwise(mean))  
   
 ##Tidy up the names of the column variables remove "-" and "()" from names  
 tidy\_col<-names(project\_tidy\_data)  
 tidy\_col<-gsub("-","",tidy\_col)  
 tidy\_col<-gsub("\\()","",tidy\_col)  
 names(project\_tidy\_data)<-tidy\_col  
   
 ##save the Data Frame to the project folder in a txt format  
 write.table(project\_tidy\_data,"project\_tidy\_data.txt")  
 print("File Name: project\_tidy\_data")  
 print(project\_tidy\_data)  
}

## [1] "File Name: project\_tidy\_data"  
## subject activity tBodyAccmeanX tBodyAccmeanY tBodyAccmeanZ  
## 1 1 laying 0.2216 -0.040514 -0.11320  
## 2 1 sitting 0.2612 -0.001308 -0.10454  
## 3 1 standing 0.2789 -0.016138 -0.11060  
## 4 1 Walking 0.2773 -0.017384 -0.11115  
## 5 1 Walkingdownstairs 0.2892 -0.009919 -0.10757  
## 6 1 Walkingupstairs 0.2555 -0.023953 -0.09730  
## 7 2 laying 0.2814 -0.018159 -0.10725  
## 8 2 sitting 0.2771 -0.015688 -0.10922  
## 9 2 standing 0.2779 -0.018421 -0.10591  
## 10 2 Walking 0.2764 -0.018595 -0.10550  
## 11 2 Walkingdownstairs 0.2776 -0.022661 -0.11681  
## 12 2 Walkingupstairs 0.2472 -0.021412 -0.15251  
## 13 3 laying 0.2755 -0.018956 -0.10130  
## 14 3 sitting 0.2572 -0.003503 -0.09836  
## 15 3 standing 0.2800 -0.014338 -0.10162  
## 16 3 Walking 0.2756 -0.017177 -0.11267  
## 17 3 Walkingdownstairs 0.2924 -0.019355 -0.11614  
## 18 3 Walkingupstairs 0.2608 -0.032411 -0.11006  
## 19 4 laying 0.2636 -0.015003 -0.11069  
## 20 4 sitting 0.2715 -0.007163 -0.10587  
## 21 4 standing 0.2805 -0.009489 -0.09616  
## 22 4 Walking 0.2786 -0.014840 -0.11140  
## 23 4 Walkingdownstairs 0.2800 -0.009802 -0.10678  
## 24 4 Walkingupstairs 0.2709 -0.031980 -0.11422  
## 25 5 laying 0.2783 -0.018304 -0.10794  
## 26 5 sitting 0.2737 -0.009901 -0.10854  
## 27 5 standing 0.2825 -0.007004 -0.10217  
## 28 5 Walking 0.2778 -0.017285 -0.10774  
## 29 5 Walkingdownstairs 0.2935 -0.008501 -0.10032  
## 30 5 Walkingupstairs 0.2685 -0.032527 -0.10747  
## 31 6 laying 0.2487 -0.010253 -0.13312  
## 32 6 sitting 0.2768 -0.014591 -0.11013  
## 33 6 standing 0.2803 -0.018124 -0.11217  
## 34 6 Walking 0.2837 -0.016895 -0.11030  
## 35 6 Walkingdownstairs 0.2770 -0.019537 -0.10721  
## 36 6 Walkingupstairs 0.2682 -0.027243 -0.12208  
## 37 7 laying 0.2502 -0.020441 -0.10136  
## 38 7 sitting 0.2847 -0.014611 -0.12246  
## 39 7 standing 0.2827 -0.014574 -0.09978  
## 40 7 Walking 0.2756 -0.018654 -0.11091  
## 41 7 Walkingdownstairs 0.2803 -0.016633 -0.09694  
## 42 7 Walkingupstairs 0.2487 -0.027564 -0.14377  
## 43 8 laying 0.2613 -0.021228 -0.10225  
## 44 8 sitting 0.2675 -0.006726 -0.10446  
## 45 8 standing 0.2796 -0.014811 -0.10611  
## 46 8 Walking 0.2747 -0.018663 -0.10725  
## 47 8 Walkingdownstairs 0.2835 -0.021106 -0.10760  
## 48 8 Walkingupstairs 0.2589 -0.028242 -0.11512  
## 49 9 laying 0.2592 -0.020527 -0.10755  
## 50 9 sitting 0.2483 -0.027017 -0.07538  
## 51 9 standing 0.2823 -0.020045 -0.09527  
## 52 9 Walking 0.2785 -0.018089 -0.11082  
## 53 9 Walkingdownstairs 0.2959 -0.020399 -0.09103  
## 54 9 Walkingupstairs 0.2624 -0.019510 -0.12522  
## 55 10 laying 0.2802 -0.024294 -0.11717  
## 56 10 sitting 0.2706 -0.015043 -0.10425  
## 57 10 standing 0.2767 -0.015542 -0.10796  
## 58 10 Walking 0.2786 -0.017022 -0.10906  
## 59 10 Walkingdownstairs 0.2904 -0.020005 -0.11085  
## 60 10 Walkingupstairs 0.2671 -0.014385 -0.11818  
## 61 11 laying 0.2806 -0.017660 -0.10879  
## 62 11 sitting 0.2766 -0.014920 -0.11284  
## 63 11 standing 0.2777 -0.017199 -0.10869  
## 64 11 Walking 0.2718 -0.016648 -0.10610  
## 65 11 Walkingdownstairs 0.2916 -0.017810 -0.11107  
## 66 11 Walkingupstairs 0.2638 -0.030316 -0.10680  
## 67 12 laying 0.2601 -0.017520 -0.10816  
## 68 12 sitting 0.2750 -0.015789 -0.10631  
## 69 12 standing 0.2774 -0.016900 -0.10553  
## 70 12 Walking 0.2771 -0.015561 -0.10316  
## 71 12 Walkingdownstairs 0.2815 -0.018084 -0.10956  
## 72 12 Walkingupstairs 0.2730 -0.026357 -0.10734  
## 73 13 laying 0.2767 -0.020440 -0.10433  
## 74 13 sitting 0.2743 -0.005877 -0.09725  
## 75 13 standing 0.2778 -0.016789 -0.11212  
## 76 13 Walking 0.2759 -0.018566 -0.11143  
## 77 13 Walkingdownstairs 0.2949 -0.014372 -0.10199  
## 78 13 Walkingupstairs 0.2582 -0.027739 -0.12577  
## 79 14 laying 0.2333 -0.011342 -0.08683  
## 80 14 sitting 0.2800 -0.008706 -0.10040  
## 81 14 standing 0.2805 -0.015208 -0.10382  
## 82 14 Walking 0.2720 -0.021779 -0.10676  
## 83 14 Walkingdownstairs 0.2934 -0.020014 -0.09283  
## 84 14 Walkingupstairs 0.2624 -0.020439 -0.11228  
## 85 15 laying 0.2895 -0.016630 -0.11853  
## 86 15 sitting 0.2729 -0.011719 -0.11366  
## 87 15 standing 0.2789 -0.018352 -0.10591  
## 88 15 Walking 0.2739 -0.017081 -0.10762  
## 89 15 Walkingdownstairs 0.2802 -0.005630 -0.11053  
## 90 15 Walkingupstairs 0.2702 -0.028752 -0.11695  
## 91 16 laying 0.2742 -0.016610 -0.10731  
## 92 16 sitting 0.2808 -0.010250 -0.08914  
## 93 16 standing 0.2835 -0.016600 -0.10366  
## 94 16 Walking 0.2760 -0.020429 -0.10880  
## 95 16 Walkingdownstairs 0.2956 -0.018390 -0.11987  
## 96 16 Walkingupstairs 0.2560 -0.014365 -0.12407  
## 97 17 laying 0.2698 -0.016846 -0.10701  
## 98 17 sitting 0.2774 -0.014156 -0.11362  
## 99 17 standing 0.2779 -0.017412 -0.11143  
## 100 17 Walking 0.2723 -0.018488 -0.10979  
## 101 17 Walkingdownstairs 0.2939 -0.016736 -0.08924  
## 102 17 Walkingupstairs 0.2526 -0.022865 -0.12129  
## 103 18 laying 0.2747 -0.017394 -0.10770  
## 104 18 sitting 0.2773 -0.012869 -0.11190  
## 105 18 standing 0.2785 -0.016635 -0.10845  
## 106 18 Walking 0.2739 -0.017802 -0.10422  
## 107 18 Walkingdownstairs 0.2884 -0.016867 -0.10339  
## 108 18 Walkingupstairs 0.2654 -0.022206 -0.11266  
## 109 19 laying 0.2727 -0.017143 -0.10898  
## 110 19 sitting 0.2738 -0.016739 -0.10871  
## 111 19 standing 0.2782 -0.015424 -0.10904  
## 112 19 Walking 0.2739 -0.019177 -0.12274  
## 113 19 Walkingdownstairs 0.2627 -0.014594 -0.13370  
## 114 19 Walkingupstairs 0.2421 -0.030399 -0.15105  
## 115 20 laying 0.2395 -0.014441 -0.10427  
## 116 20 sitting 0.2780 -0.014723 -0.10837  
## 117 20 standing 0.2781 -0.018070 -0.10040  
## 118 20 Walking 0.2726 -0.021200 -0.11354  
## 119 20 Walkingdownstairs 0.2961 -0.009641 -0.10460  
## 120 20 Walkingupstairs 0.2521 -0.028226 -0.12102  
## 121 21 laying 0.2713 -0.018423 -0.10325  
## 122 21 sitting 0.2775 -0.014401 -0.11206  
## 123 21 standing 0.2770 -0.016708 -0.11042  
## 124 21 Walking 0.2792 -0.018161 -0.10432  
## 125 21 Walkingdownstairs 0.3015 -0.017320 -0.09817  
## 126 21 Walkingupstairs 0.2652 -0.023722 -0.12541  
## 127 22 laying 0.2800 -0.014263 -0.11080  
## 128 22 sitting 0.2736 -0.012347 -0.10583  
## 129 22 standing 0.2791 -0.015856 -0.10497  
## 130 22 Walking 0.2789 -0.016721 -0.10711  
## 131 22 Walkingdownstairs 0.2845 -0.019800 -0.10742  
## 132 22 Walkingupstairs 0.2484 -0.026862 -0.11755  
## 133 23 laying 0.2740 -0.021655 -0.10426  
## 134 23 sitting 0.2734 -0.013395 -0.10381  
## 135 23 standing 0.2779 -0.017748 -0.11060  
## 136 23 Walking 0.2732 -0.018362 -0.11338  
## 137 23 Walkingdownstairs 0.2899 -0.016211 -0.09881  
## 138 23 Walkingupstairs 0.2500 -0.032384 -0.12689  
## 139 24 laying 0.2729 -0.017356 -0.10724  
## 140 24 sitting 0.2735 -0.013126 -0.10304  
## 141 24 standing 0.2803 -0.014479 -0.10822  
## 142 24 Walking 0.2770 -0.022545 -0.11060  
## 143 24 Walkingdownstairs 0.2886 -0.014573 -0.10482  
## 144 24 Walkingupstairs 0.2699 -0.025198 -0.11425  
## 145 25 laying 0.2508 -0.018894 -0.10043  
## 146 25 sitting 0.2785 -0.014770 -0.10916  
## 147 25 standing 0.2780 -0.016357 -0.10735  
## 148 25 Walking 0.2790 -0.018648 -0.10874  
## 149 25 Walkingdownstairs 0.2913 -0.021017 -0.10719  
## 150 25 Walkingupstairs 0.2780 -0.026986 -0.12621  
## 151 26 laying 0.2716 -0.019190 -0.10500  
## 152 26 sitting 0.2582 -0.007134 -0.09744  
## 153 26 standing 0.2811 -0.016661 -0.11024  
## 154 26 Walking 0.2793 -0.015426 -0.10893  
## 155 26 Walkingdownstairs 0.2793 -0.012626 -0.10644  
## 156 26 Walkingupstairs 0.2727 -0.028163 -0.12194  
## 157 27 laying 0.2741 -0.017987 -0.10770  
## 158 27 sitting 0.2739 -0.015527 -0.10552  
## 159 27 standing 0.2796 -0.016593 -0.10784  
## 160 27 Walking 0.2768 -0.016648 -0.11282  
## 161 27 Walkingdownstairs 0.2975 -0.013556 -0.11284  
## 162 27 Walkingupstairs 0.2658 -0.020095 -0.12353  
## 163 28 laying 0.2759 -0.016754 -0.10834  
## 164 28 sitting 0.2770 -0.018540 -0.11152  
## 165 28 standing 0.2778 -0.017264 -0.10658  
## 166 28 Walking 0.2812 -0.015676 -0.10371  
## 167 28 Walkingdownstairs 0.2936 -0.022023 -0.10859  
## 168 28 Walkingupstairs 0.2620 -0.027944 -0.12151  
## 169 29 laying 0.2873 -0.017197 -0.10946  
## 170 29 sitting 0.2772 -0.016631 -0.11041  
## 171 29 standing 0.2780 -0.017261 -0.10866  
## 172 29 Walking 0.2720 -0.016292 -0.10663  
## 173 29 Walkingdownstairs 0.2931 -0.014941 -0.09813  
## 174 29 Walkingupstairs 0.2654 -0.029947 -0.11800  
## 175 30 laying 0.2810 -0.019449 -0.10366  
## 176 30 sitting 0.2683 -0.008047 -0.09952  
## 177 30 standing 0.2771 -0.017016 -0.10876  
## 178 30 Walking 0.2764 -0.017588 -0.09862  
## 179 30 Walkingdownstairs 0.2832 -0.017438 -0.09998  
## 180 30 Walkingupstairs 0.2714 -0.025331 -0.12470  
## tBodyAccstdX tBodyAccstdY tBodyAccstdZ tGravityAccmeanX  
## 1 -0.928056 -0.836827 -0.826061 -0.2489  
## 2 -0.977229 -0.922619 -0.939586 0.8315  
## 3 -0.995760 -0.973190 -0.979776 0.9430  
## 4 -0.283740 0.114461 -0.260028 0.9352  
## 5 0.030035 -0.031936 -0.230434 0.9319  
## 6 -0.354708 -0.002320 -0.019479 0.8934  
## 7 -0.974059 -0.980277 -0.984233 -0.5098  
## 8 -0.986822 -0.950704 -0.959828 0.9405  
## 9 -0.987272 -0.957305 -0.949742 0.8969  
## 10 -0.423643 -0.078091 -0.425258 0.9130  
## 11 0.046367 0.262882 -0.102838 0.8618  
## 12 -0.304376 0.108027 -0.112121 0.7907  
## 13 -0.982777 -0.962058 -0.963691 -0.2418  
## 14 -0.971010 -0.856618 -0.875110 0.9011  
## 15 -0.966743 -0.893449 -0.911419 0.9350  
## 16 -0.360357 -0.069914 -0.387412 0.9365  
## 17 -0.057410 -0.033150 -0.362240 0.9391  
## 18 -0.313123 0.011628 -0.369755 0.8835  
## 19 -0.954194 -0.941714 -0.962667 -0.4207  
## 20 -0.980310 -0.890224 -0.932203 0.8693  
## 21 -0.976921 -0.861597 -0.896881 0.9562  
## 22 -0.440830 -0.078827 -0.586253 0.9640  
## 23 0.011194 -0.218598 -0.479186 0.9477  
## 24 -0.204933 -0.066690 -0.372138 0.9463  
## 25 -0.965935 -0.969296 -0.968563 -0.4835  
## 26 -0.980945 -0.904335 -0.926095 0.8807  
## 27 -0.968592 -0.869440 -0.869327 0.9602  
## 28 -0.294099 0.076748 -0.457021 0.9726  
## 29 0.275046 0.090763 -0.325891 0.9566  
## 30 -0.045724 0.185022 -0.308939 0.9368  
## 31 -0.934049 -0.924645 -0.925216 -0.4767  
## 32 -0.980165 -0.923682 -0.925797 0.9337  
## 33 -0.981758 -0.921493 -0.925692 0.9451  
## 34 -0.296539 0.164214 -0.504324 0.9581  
## 35 0.383682 0.360165 -0.320204 0.9285  
## 36 -0.050135 0.189276 -0.353520 0.9136  
## 37 -0.936514 -0.926263 -0.952978 -0.5028  
## 38 -0.972668 -0.909455 -0.856533 0.9691  
## 39 -0.979308 -0.923401 -0.917064 0.9587  
## 40 -0.327243 -0.077262 0.159631 0.9326  
## 41 0.066082 -0.138179 -0.063640 0.9306  
## 42 -0.294873 -0.326160 -0.145665 0.8187  
## 43 -0.943041 -0.934891 -0.932491 -0.4059  
## 44 -0.979026 -0.927332 -0.939553 0.8325  
## 45 -0.988815 -0.938479 -0.926065 0.9577  
## 46 -0.173606 0.380782 -0.142089 0.9136  
## 47 0.024139 0.343826 0.133717 0.9140  
## 48 -0.171712 0.348769 0.121187 0.8604  
## 49 -0.942333 -0.916293 -0.940707 -0.5803  
## 50 -0.957228 -0.875141 -0.832002 0.9163  
## 51 -0.975741 -0.938636 -0.919296 0.9613  
## 52 -0.238354 -0.201697 -0.057964 0.9519  
## 53 0.213392 -0.208311 -0.007715 0.9384  
## 54 -0.361444 -0.302206 -0.253434 0.9026  
## 55 -0.968284 -0.946454 -0.959471 -0.4531  
## 56 -0.982902 -0.917980 -0.967827 0.7919  
## 57 -0.978403 -0.919562 -0.941271 0.9540  
## 58 -0.178710 -0.022743 -0.395645 0.9631  
## 59 0.295734 0.004079 -0.183558 0.9398  
## 60 -0.161592 -0.005553 -0.073874 0.9319  
## 61 -0.984777 -0.972197 -0.971311 -0.1348  
## 62 -0.982797 -0.921402 -0.968370 0.8720  
## 63 -0.994979 -0.964173 -0.986383 0.9565  
## 64 -0.422842 -0.052212 -0.530626 0.9465  
## 65 0.142457 0.070812 -0.324027 0.9417  
## 66 -0.238803 -0.103168 -0.203369 0.8926  
## 67 -0.955319 -0.949072 -0.948334 -0.3786  
## 68 -0.982569 -0.928581 -0.939662 0.9262  
## 69 -0.981244 -0.923140 -0.920685 0.9573  
## 70 -0.128899 -0.122783 -0.410606 0.9669  
## 71 0.042408 0.110835 -0.425017 0.9499  
## 72 -0.290149 -0.103818 -0.436697 0.9384  
## 73 -0.968892 -0.950948 -0.950393 -0.1569  
## 74 -0.989546 -0.938968 -0.938641 0.9256  
## 75 -0.991021 -0.949422 -0.967538 0.9427  
## 76 -0.346980 0.141867 -0.220504 0.9109  
## 77 -0.068156 -0.032125 -0.158333 0.9419  
## 78 -0.296285 0.104471 -0.217211 0.8476  
## 79 -0.917502 -0.909697 -0.900332 -0.1455  
## 80 -0.976302 -0.914936 -0.922775 0.9390  
## 81 -0.973269 -0.928526 -0.922276 0.8753  
## 82 -0.402639 -0.053613 0.051884 0.8030  
## 83 0.017831 0.378870 0.451576 0.8163  
## 84 -0.309397 0.307196 0.609018 0.6883  
## 85 -0.972256 -0.962759 -0.929587 -0.1720  
## 86 -0.987084 -0.922407 -0.949338 0.8904  
## 87 -0.988949 -0.931900 -0.951670 0.9655  
## 88 -0.327962 0.138913 -0.518933 0.9515  
## 89 0.406471 0.186532 -0.281982 0.9323  
## 90 -0.026097 -0.004065 -0.379717 0.9185  
## 91 -0.973691 -0.943061 -0.965490 -0.2068  
## 92 -0.986826 -0.951608 -0.939672 0.9425  
## 93 -0.989077 -0.960298 -0.953469 0.9416  
## 94 -0.404693 -0.314570 -0.159800 0.9260  
## 95 0.207252 -0.146994 0.011435 0.9178  
## 96 -0.397084 -0.163733 -0.129284 0.8269  
## 97 -0.972961 -0.944793 -0.953477 -0.1991  
## 98 -0.994444 -0.961859 -0.965729 0.9449  
## 99 -0.991164 -0.968177 -0.970463 0.9047  
## 100 -0.319500 -0.017580 -0.265824 0.9281  
## 101 0.187720 -0.060789 -0.231064 0.9288  
## 102 -0.062953 -0.013172 -0.230221 0.8535  
## 103 -0.984528 -0.986161 -0.987659 -0.2206  
## 104 -0.994348 -0.974928 -0.977573 0.9098  
## 105 -0.992020 -0.954223 -0.961874 0.9476  
## 106 -0.376006 -0.227006 -0.428348 0.9239  
## 107 -0.302635 -0.254214 -0.418610 0.9323  
## 108 -0.380168 -0.211155 -0.314373 0.8833  
## 109 -0.965020 -0.973450 -0.984673 -0.6800  
## 110 -0.976358 -0.950389 -0.951930 0.5814  
## 111 -0.989911 -0.944430 -0.952600 0.9440  
## 112 -0.048905 0.181802 -0.139478 0.9352  
## 113 0.626917 0.514816 0.049322 0.8819  
## 114 -0.128742 0.176350 -0.190469 0.8294  
## 115 -0.962249 -0.964098 -0.972572 -0.4724  
## 116 -0.983082 -0.936123 -0.929106 0.9245  
## 117 -0.967210 -0.875410 -0.913142 0.9112  
## 118 -0.208343 0.489772 -0.228734 0.9000  
## 119 0.074510 0.616937 -0.160939 0.9197  
## 120 -0.116089 0.152196 -0.229249 0.7771  
## 121 -0.955020 -0.956959 -0.945654 -0.1743  
## 122 -0.991777 -0.966878 -0.959568 0.9400  
## 123 -0.981420 -0.943602 -0.946123 0.8812  
## 124 -0.297815 0.054088 -0.168689 0.8625  
## 125 0.224343 0.301336 -0.071789 0.8727  
## 126 -0.240808 0.109787 -0.219708 0.7812  
## 127 -0.947735 -0.913276 -0.942946 -0.4185  
## 128 -0.978467 -0.928059 -0.917565 0.8393  
## 129 -0.985001 -0.922693 -0.942202 0.9541  
## 130 -0.008659 0.100384 -0.213352 0.9361  
## 131 0.348618 0.239812 -0.325723 0.9218  
## 132 0.083574 0.250068 -0.109613 0.8895  
## 133 -0.956756 -0.976310 -0.973223 -0.3916  
## 134 -0.987608 -0.934934 -0.905584 0.9365  
## 135 -0.985422 -0.958444 -0.929410 0.9199  
## 136 -0.313522 -0.119021 0.164221 0.9398  
## 137 0.044139 0.108259 0.229899 0.9237  
## 138 -0.243888 0.044844 0.100801 0.8434  
## 139 -0.967984 -0.983126 -0.973567 -0.3593  
## 140 -0.990594 -0.956256 -0.957056 0.9196  
## 141 -0.987256 -0.936872 -0.930284 0.9664  
## 142 -0.470762 -0.154127 -0.288840 0.9597  
## 143 -0.082732 -0.102607 -0.205566 0.9509  
## 144 -0.344399 -0.116804 -0.255601 0.9064  
## 145 -0.909116 -0.691771 -0.717262 -0.4611  
## 146 -0.991893 -0.947458 -0.965140 0.8657  
## 147 -0.991970 -0.954569 -0.964643 0.9298  
## 148 -0.596007 -0.161852 -0.437133 0.9375  
## 149 -0.253757 -0.140541 -0.457972 0.9296  
## 150 -0.459776 -0.223087 -0.296524 0.9277  
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## 155 0.173954 -0.011630 -0.284808 0.9468  
## 156 -0.169007 -0.049173 -0.404597 0.9421  
## 157 -0.978455 -0.983736 -0.986637 -0.5304  
## 158 -0.988580 -0.971579 -0.965859 0.8395  
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## 160 -0.348476 -0.187301 -0.297318 0.9448  
## 161 0.167408 -0.097971 -0.240041 0.9314  
## 162 -0.295440 -0.095010 -0.230708 0.8680  
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## 165 -0.977749 -0.875689 -0.905124 0.9485  
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## 174 -0.086772 -0.122128 0.099544 0.9293  
## 175 -0.976363 -0.954202 -0.967044 -0.3447  
## 176 -0.983623 -0.937857 -0.950654 0.8255  
## 177 -0.977559 -0.891655 -0.912851 0.9686  
## 178 -0.346394 -0.173550 -0.120477 0.9652  
## 179 -0.057770 -0.027263 -0.217276 0.9580  
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## tGravityAccmeanY tGravityAccmeanZ tGravityAccstdX tGravityAccstdY  
## 1 0.705550 0.445818 -0.8968 -0.9077  
## 2 0.204412 0.332044 -0.9685 -0.9355  
## 3 -0.272984 0.013491 -0.9938 -0.9812  
## 4 -0.282165 -0.068103 -0.9766 -0.9713  
## 5 -0.266610 -0.062120 -0.9506 -0.9370  
## 6 -0.362153 -0.075403 -0.9564 -0.9528  
## 7 0.752537 0.646835 -0.9590 -0.9882  
## 8 -0.105630 0.198727 -0.9800 -0.9568  
## 9 -0.370063 0.129747 -0.9867 -0.9742  
## 10 -0.346607 0.084727 -0.9727 -0.9721  
## 11 -0.325780 -0.043889 -0.9404 -0.9401  
## 12 -0.416215 -0.195888 -0.9344 -0.9238  
## 13 0.837032 0.488703 -0.9825 -0.9812  
## 14 0.127303 0.139021 -0.9573 -0.9039  
## 15 -0.301735 0.024763 -0.9820 -0.9574  
## 16 -0.261986 -0.138108 -0.9778 -0.9624  
## 17 -0.228829 -0.102353 -0.9501 -0.9461  
## 18 -0.382851 -0.162944 -0.9440 -0.9098  
## 19 0.915165 0.341531 -0.9212 -0.9698  
## 20 0.211623 0.110120 -0.9814 -0.9327  
## 21 -0.075901 0.166894 -0.9729 -0.9176  
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## 36 -0.340733 -0.018461 -0.9594 -0.9129  
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## 39 -0.117607 -0.051657 -0.9879 -0.9662  
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## 3 -0.9763 0.07538 7.976e-03 -3.685e-03  
## 4 -0.9477 0.07404 2.827e-02 -4.168e-03  
## 5 -0.8959 0.05416 2.965e-02 -1.097e-02  
## 6 -0.9124 0.10137 1.949e-02 -4.556e-02  
## 7 -0.9842 0.08260 1.225e-02 -1.803e-03  
## 8 -0.9544 0.07226 1.170e-02 7.605e-03  
## 9 -0.9459 0.07476 1.033e-02 -8.372e-03  
## 10 -0.9721 0.06181 1.825e-02 7.895e-03  
## 11 -0.9314 0.11004 -3.280e-03 -2.094e-02  
## 12 -0.8780 0.07445 -9.710e-03 1.948e-02  
## 13 -0.9648 0.07698 1.380e-02 -4.356e-03  
## 14 -0.8977 0.07261 2.725e-03 -4.233e-03  
## 15 -0.9282 0.07509 7.717e-03 -8.072e-03  
## 16 -0.9521 0.08147 1.006e-02 -5.623e-03  
## 17 -0.8999 0.07257 1.097e-02 -2.027e-03  
## 18 -0.9095 0.04269 3.972e-02 2.082e-02  
## 19 -0.9762 0.09345 6.933e-03 -6.411e-03  
## 20 -0.9509 0.07845 -1.086e-02 -1.215e-02  
## 21 -0.8994 0.07213 -6.530e-03 -2.119e-02  
## 22 -0.9630 0.07835 2.956e-03 -7.677e-04  
## 23 -0.9378 0.09719 5.638e-03 -7.291e-03  
## 24 -0.9196 0.05610 2.340e-02 3.403e-03  
## 25 -0.9771 0.08482 7.475e-03 -3.041e-03  
## 26 -0.9450 0.07496 -2.788e-03 3.386e-03  
## 27 -0.9146 0.07252 -2.220e-03 -1.228e-02  
## 28 -0.9646 0.08459 -1.632e-02 8.322e-05  
## 29 -0.9272 0.10965 1.376e-02 2.134e-02  
## 30 -0.9214 0.07954 1.401e-02 -2.559e-02  
## 31 -0.9281 0.09635 -1.145e-03 3.288e-03  
## 32 -0.9555 0.07547 2.556e-06 6.237e-03  
## 33 -0.9428 0.07307 8.719e-03 -4.817e-03  
## 34 -0.9572 0.06996 -1.648e-02 -7.389e-03  
## 35 -0.9344 0.10368 9.877e-03 -9.325e-03  
## 36 -0.9062 0.07211 3.713e-03 -2.378e-03  
## 37 -0.9619 0.09689 2.506e-02 -1.317e-02  
## 38 -0.8686 0.06685 1.169e-02 1.620e-02  
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## 41 -0.9288 0.09689 -1.911e-02 -1.604e-02  
## 42 -0.8817 0.07246 -8.124e-04 -7.452e-05  
## 43 -0.9418 0.08783 2.333e-02 -1.692e-02  
## 44 -0.9355 0.07867 -6.575e-03 -1.068e-02  
## 45 -0.9183 0.07537 8.150e-03 3.222e-03  
## 46 -0.9566 0.07034 -6.039e-03 -6.738e-04  
## 47 -0.8972 0.11894 -3.802e-02 -3.944e-02  
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## 63 -0.9894 0.07601 1.241e-02 -7.459e-04  
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## 112 -0.09939 0.0648173 -0.09939  
## 113 0.41347 0.6446043 0.41347  
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## 119 0.17264 0.2218516 0.17264  
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## 124 -0.29971 -0.1234557 -0.29971  
## 125 0.26434 0.2457717 0.26434  
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## 130 -0.16159 0.0722419 -0.16159  
## 131 0.13327 0.3309992 0.13327  
## 132 -0.15876 0.2102826 -0.15876  
## 133 -0.95787 -0.9629592 -0.95787  
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## 135 -0.95167 -0.9572123 -0.95167  
## 136 -0.20999 -0.0988770 -0.20999  
## 137 0.23036 0.1272111 0.23036  
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## 139 -0.96935 -0.9718540 -0.96935  
## 140 -0.96378 -0.9689792 -0.96378  
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## 166 -0.39269 -0.1806660 -0.39269  
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## 168 -0.21193 -0.1862405 -0.21193  
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## 176 -0.94290 -0.9574872 -0.94290  
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## 8 -0.986775 -0.98448 -0.946035  
## 9 -0.980489 -0.97668 -0.963466  
## 10 -0.281424 -0.16415 -0.446549  
## 11 0.005655 0.22962 -0.162189  
## 12 -0.321269 -0.21739 -0.219713  
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## 158 -0.99239 -0.99197  
## 159 -0.98942 -0.98858  
## 160 -0.62329 -0.63924  
## 161 -0.46778 -0.50283  
## 162 -0.71918 -0.75171  
## 163 -0.97183 -0.96932  
## 164 -0.97947 -0.97840  
## 165 -0.95876 -0.95598  
## 166 -0.59597 -0.58907  
## 167 -0.39672 -0.46472  
## 168 -0.66251 -0.70485  
## 169 -0.99762 -0.99759  
## 170 -0.99506 -0.99474  
## 171 -0.99167 -0.99152  
## 172 -0.62850 -0.61867  
## 173 -0.59658 -0.62668  
## 174 -0.69745 -0.75646  
## 175 -0.97782 -0.97548  
## 176 -0.99175 -0.99095  
## 177 -0.95924 -0.95501  
## 178 -0.54762 -0.57858  
## 179 -0.61758 -0.64550  
## 180 -0.77397 -0.79135