
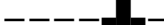













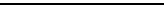






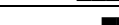
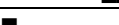




























TRANSFORMATIONS:

1. Dataset was initially split into subject, activity, and features. Each of these were further split into test and train sets. Merging was performed to get everything in one dataset.
2. The mean and standard deviation values for each measurement was extracted by using pattern matching functions on variable names.
3. Dataset activity variable was factorized with the activity lookup table to obtain a descriptive name for each activity.
4. An average was added for every feature by grouping the data set by subject and activity.
5. The new dataset is then written to tidyData.txt file

name	data_type	missing	complete	mean	sd	p0	p25	p50	p75	p100	hist
"subject"	integer	0	180	15.5	8.68	1	8	15.5	23	30	
"activity"	character	0	180								
"timeBodyAccelerometer-mean()-X"	numeric	0	180	0.27	0.012	0.22	0.27	0.28	0.28	0.3	
"timeBodyAccelerometer-mean()-Y"	numeric	0	180	-0.018	0.0058	-0.041	-0.02	-0.017	-0.015	0.0013	
"timeBodyAccelerometer-mean()-Z"	numeric	0	180	-0.11	0.0096	-0.15	-0.11	-0.11	-0.1	-0.075	
"timeBodyAccelerometer-std()-X"	numeric	0	180	-0.56	0.45	-1	-0.98	-0.75	-0.2	0.63	
"timeBodyAccelerometer-std()-Y"	numeric	0	180	-0.46	0.5	-0.99	-0.94	-0.51	-0.031	0.62	
"timeBodyAccelerometer-std()-Z"	numeric	0	180	-0.58	0.4	-0.99	-0.95	-0.65	-0.23	0.61	
"timeGravityAccelerometer-mean()-X"	numeric	0	180	0.7	0.49	-0.68	0.84	0.92	0.94	0.97	
"timeGravityAccelerometer-mean()-Y"	numeric	0	180	-0.016	0.35	-0.48	-0.23	-0.13	0.088	0.96	
"timeGravityAccelerometer-mean()-Z"	numeric	0	180	0.074	0.29	-0.5	-0.12	0.024	0.15	0.96	
"timeGravityAccelerometer-std()-X"	numeric	0	180	-0.96	0.025	-1	-0.98	-0.97	-0.95	-0.83	
"timeGravityAccelerometer-std()-Y"	numeric	0	180	-0.95	0.033	-0.99	-0.97	-0.96	-0.94	-0.64	
"timeGravityAccelerometer-std()-Z"	numeric	0	180	-0.94	0.04	-0.99	-0.96	-0.95	-0.92	-0.61	
"timeBodyAccelerometerJerk-mean()-X"	numeric	0	180	0.079	0.013	0.043	0.074	0.076	0.083	0.13	
"timeBodyAccelerometerJerk-mean()-Y"	numeric	0	180	0.0076	0.014	-0.039	0.00047	0.0095	0.013	0.057	
"timeBodyAccelerometerJerk-mean()-Z"	numeric	0	180	-0.005	0.013	-0.067	-0.011	0.0039	0.002	0.038	
"timeBodyAccelerometerJerk-std()-X"	numeric	0	180	-0.59	0.42	-0.99	-0.98	-0.81	-0.22	0.54	
"timeBodyAccelerometerJerk-std()-Y"	numeric	0	180	-0.57	0.43	-0.99	-0.97	-0.78	-0.15	0.36	
"timeBodyAccelerometerJerk-std()-Z"	numeric	0	180	-0.74	0.28	-0.99	-0.98	-0.88	-0.51	0.031	
"timeBodyGyroscope-mean()-X"	numeric	0	180	-0.032	0.054	-0.21	-0.047	-0.029	-0.017	0.19	
"timeBodyGyroscope-mean()-Y"	numeric	0	180	-0.074	0.036	-0.2	-0.09	-0.073	-0.061	0.027	
"timeBodyGyroscope-mean()-Z"	numeric	0	180	0.087	0.036	-0.072	0.075	0.085	0.1	0.18	
"timeBodyGyroscope-std()-X"]	numeric	0	180	-0.69	0.29	-0.99	-0.97	-0.79	-0.44	0.27	
"timeBodyGyroscope-std()-Y"	numeric	0	180	-0.65	0.35	-0.99	-0.96	-0.8	-0.42	0.48	

"timeBodyGyroscope-std()-Z"	numeric	0	180	-0.62	0.37	-0.99	-0.96	-0.8	-0.31	0.56	
"timeBodyGyroscopeJerk-mean()-X"	numeric	0	180	-0.096	0.023	-0.16	-0.1	-0.099	-0.091	-0.022	
"timeBodyGyroscopeJerk-mean()-Y"	numeric	0	180	-0.043	0.0095	-0.077	-0.046	-0.041	-0.038	-0.013	
"timeBodyGyroscopeJerk-mean()-Z"	numeric	0	180	-0.055	0.012	-0.092	-0.062	-0.053	-0.049	0.0069	
"timeBodyGyroscopeJerk-std()-X"	numeric	0	180	-0.7	0.3	-1	-0.98	-0.84	-0.46	0.18	
"timeBodyGyroscopeJerk-std()-Y"	numeric	0	180	-0.76	0.27	-1	-0.98	-0.89	-0.59	0.3	
"timeBodyGyroscopeJerk-std()-Z"	numeric	0	180	-0.71	0.3	-1	-0.98	-0.86	-0.47	0.19	
"timeBodyAccelerometerMagnitude-mean()"	numeric	0	180	-0.5	0.47	-0.99	-0.96	-0.48	-0.092	0.64	
"timeBodyAccelerometerMagnitude-std()"	numeric	0	180	-0.54	0.43	-0.99	-0.94	-0.61	-0.21	0.43	
"timeGravityAccelerometerMagnitude-mean()"	numeric	0	180	-0.5	0.47	-0.99	-0.96	-0.48	-0.092	0.64	
"timeGravityAccelerometerMagnitude-std()"	numeric	0	180	-0.54	0.43	-0.99	-0.94	-0.61	-0.21	0.43	
"timeBodyAccelerometerJerkMagnitude-mean()"	numeric	0	180	-0.61	0.4	-0.99	-0.98	-0.82	-0.25	0.43	
"timeBodyAccelerometerJerkMagnitude-std()"	numeric	0	180	-0.58	0.42	-0.99	-0.98	-0.8	-0.22	0.45	
"timeBodyGyroscopeMagnitude-mean()"	numeric	0	180	-0.57	0.4	-0.98	-0.95	-0.66	-0.22	0.42	
"timeBodyGyroscopeMagnitude-std()"	numeric	0	180	-0.63	0.34	-0.98	-0.95	-0.74	-0.36	0.3	
"timeBodyGyroscopeJerkMagnitude-mean()"	numeric	0	180	-0.74	0.28	-1	-0.99	-0.86	-0.51	0.088	
"timeBodyGyroscopeJerkMagnitude-std()"	numeric	0	180	-0.76	0.27	-1	-0.98	-0.88	-0.58	0.25	
"frequencyBodyAccelerometer-mean()-X"	numeric	0	180	-0.58	0.43	-1	-0.98	-0.77	-0.22	0.54	
"frequencyBodyAccelerometer-mean()-Y"	numeric	0	180	-0.49	0.48	-0.99	-0.95	-0.59	-0.063	0.52	
"frequencyBodyAccelerometer-mean()-Z"	numeric	0	180	-0.63	0.36	-0.99	-0.96	-0.72	-0.32	0.28	
"frequencyBodyAccelerometer-std()-X"	numeric	0	180	-0.55	0.46	-1	-0.98	-0.75	-0.2	0.66	
"frequencyBodyAccelerometer-std()-Y"	numeric	0	180	-0.48	0.47	-0.99	-0.94	-0.51	-0.079	0.56	
"frequencyBodyAccelerometer-std()-Z"	numeric	0	180	-0.58	0.39	-0.99	-0.95	-0.64	-0.27	0.69	
"frequencyBodyAccelerometerJerk-mean()-X"	numeric	0	180	-0.61	0.4	-0.99	-0.98	-0.81	-0.28	0.47	
"frequencyBodyAccelerometerJerk-mean()-Y"	numeric	0	180	-0.59	0.41	-0.99	-0.97	-0.78	-0.2	0.28	
"frequencyBodyAccelerometerJerk-mean()-Z"	numeric	0	180	-0.71	0.3	-0.99	-0.98	-0.87	-0.47	0.16	

[illegible]

