Codebook: list of variables in the tidy data

68 variables in total:

**name type notes**

$ subject: integer the label of 30 participants in this study

$ activity character name of activities

$ tBodyAcc.mean...X : num 0.266 0.273 0.273 0.274 0.279 ...

$ tBodyAcc.mean...Y : num -0.0183 -0.0191 -0.0179 -0.0148 -0.0155 ...

$ tBodyAcc.mean...Z : num -0.108 -0.116 -0.106 -0.108 -0.106 ...

$ tBodyAcc.std...X : num -0.546 -0.606 -0.623 -0.605 -0.508 ...

$ tBodyAcc.std...Y : num -0.368 -0.429 -0.48 -0.51 -0.403 ...

$ tBodyAcc.std...Z : num -0.503 -0.589 -0.654 -0.709 -0.646 ...

$ tGravityAcc.mean...X : num 0.745 0.661 0.708 0.707 0.698 ...

$ tGravityAcc.mean...Y : num -0.0826 -0.1472 -0.0261 0.1126 0.1123 ...

$ tGravityAcc.mean...Z : num 0.0723 0.1349 0.0481 0.1641 0.0922 ...

$ tGravityAcc.std...X : num -0.96 -0.963 -0.966 -0.963 -0.965 ...

$ tGravityAcc.std...Y : num -0.951 -0.96 -0.945 -0.941 -0.94 ...

$ tGravityAcc.std...Z : num -0.926 -0.945 -0.927 -0.941 -0.942 ...

$ tBodyAccJerk.mean...X : num 0.0771 0.0785 0.0702 0.0789 0.0841 ...

$ tBodyAccJerk.mean...Y : num 0.01659 0.00709 0.01447 0.00351 0.00177 ...

$ tBodyAccJerk.mean...Z : num -0.009108 0.000756 -0.000527 -0.007374 -0.002954 ...

$ tBodyAccJerk.std...X : num -0.525 -0.558 -0.635 -0.632 -0.576 ...

$ tBodyAccJerk.std...Y : num -0.47 -0.492 -0.557 -0.584 -0.507 ...

$ tBodyAccJerk.std...Z : num -0.717 -0.742 -0.796 -0.843 -0.785 ...

$ tBodyGyro.mean...X : num -0.0209 -0.0517 -0.0248 -0.0289 -0.0295 ...

$ tBodyGyro.mean...Y : num -0.0881 -0.0568 -0.0744 -0.0787 -0.0774 ...

$ tBodyGyro.mean...Z : num 0.0863 0.0873 0.0867 0.0957 0.0866 ...

$ tBodyGyro.std...X : num -0.687 -0.711 -0.699 -0.701 -0.71 ...

$ tBodyGyro.std...Y : num -0.451 -0.723 -0.763 -0.798 -0.706 ...

$ tBodyGyro.std...Z : num -0.597 -0.635 -0.709 -0.726 -0.607 ...

$ tBodyGyroJerk.mean...X : num -0.0971 -0.0876 -0.0992 -0.1079 -0.1035 ...

$ tBodyGyroJerk.mean...Y : num -0.0417 -0.0434 -0.0402 -0.04 -0.0491 ...

$ tBodyGyroJerk.mean...Z : num -0.0471 -0.0558 -0.0521 -0.0578 -0.0506 ...

$ tBodyGyroJerk.std...X : num -0.638 -0.672 -0.689 -0.724 -0.663 ...

$ tBodyGyroJerk.std...Y : num -0.634 -0.784 -0.843 -0.903 -0.774 ...

$ tBodyGyroJerk.std...Z : num -0.665 -0.675 -0.743 -0.748 -0.565 ...

$ tBodyAccMag.mean.. : num -0.454 -0.535 -0.563 -0.562 -0.461 ...

$ tBodyAccMag.std.. : num -0.497 -0.553 -0.591 -0.607 -0.522 ...

$ tGravityAccMag.mean.. : num -0.454 -0.535 -0.563 -0.562 -0.461 ...

$ tGravityAccMag.std.. : num -0.497 -0.553 -0.591 -0.607 -0.522 ...

$ tBodyAccJerkMag.mean.. : num -0.545 -0.588 -0.65 -0.656 -0.589 ...

$ tBodyAccJerkMag.std.. : num -0.516 -0.512 -0.608 -0.647 -0.589 ...

$ tBodyGyroMag.mean.. : num -0.475 -0.615 -0.643 -0.656 -0.603 ...

$ tBodyGyroMag.std.. : num -0.5 -0.681 -0.674 -0.707 -0.664 ...

$ tBodyGyroJerkMag.mean.. : num -0.64 -0.747 -0.784 -0.819 -0.707 ...

$ tBodyGyroJerkMag.std.. : num -0.652 -0.74 -0.804 -0.844 -0.734 ...

$ fBodyAcc.mean...X : num -0.532 -0.574 -0.626 -0.629 -0.551 ...

$ fBodyAcc.mean...Y : num -0.406 -0.433 -0.502 -0.526 -0.44 ...

$ fBodyAcc.mean...Z : num -0.596 -0.63 -0.7 -0.755 -0.696 ...

$ fBodyAcc.std...X : num -0.553 -0.62 -0.624 -0.598 -0.493 ...

$ fBodyAcc.std...Y : num -0.39 -0.465 -0.503 -0.535 -0.422 ...

$ fBodyAcc.std...Z : num -0.499 -0.601 -0.657 -0.709 -0.649 ...

$ fBodyAccJerk.mean...X : num -0.547 -0.562 -0.646 -0.652 -0.605 ...

$ fBodyAccJerk.mean...Y : num -0.507 -0.509 -0.583 -0.602 -0.551 ...

$ fBodyAccJerk.mean...Z : num -0.695 -0.716 -0.78 -0.825 -0.769 ...

$ fBodyAccJerk.std...X : num -0.544 -0.595 -0.658 -0.645 -0.584 ...

$ fBodyAccJerk.std...Y : num -0.466 -0.509 -0.56 -0.594 -0.492 ...

$ fBodyAccJerk.std...Z : num -0.738 -0.767 -0.811 -0.861 -0.799 ...

$ fBodyGyro.mean...X : num -0.623 -0.639 -0.642 -0.642 -0.632 ...

$ fBodyGyro.mean...Y : num -0.505 -0.722 -0.775 -0.832 -0.717 ...

$ fBodyGyro.mean...Z : num -0.554 -0.602 -0.671 -0.689 -0.537 ...

$ fBodyGyro.std...X : num -0.708 -0.735 -0.719 -0.722 -0.736 ...

$ fBodyGyro.std...Y : num -0.43 -0.727 -0.759 -0.783 -0.702 ...

$ fBodyGyro.std...Z : num -0.65 -0.683 -0.751 -0.767 -0.669 ...

$ fBodyAccMag.mean.. : num -0.478 -0.515 -0.579 -0.602 -0.529 ...

$ fBodyAccMag.std.. : num -0.59 -0.647 -0.663 -0.673 -0.594 ...

$ fBodyBodyAccJerkMag.mean.. : num -0.499 -0.51 -0.605 -0.635 -0.573 ...

$ fBodyBodyAccJerkMag.std.. : num -0.542 -0.519 -0.616 -0.667 -0.613 ...

$ fBodyBodyGyroMag.mean.. : num -0.535 -0.7 -0.717 -0.746 -0.677 ...

$ fBodyBodyGyroMag.std.. : num -0.567 -0.725 -0.704 -0.733 -0.716 ...

$ fBodyBodyGyroJerkMag.mean..: num -0.646 -0.752 -0.81 -0.839 -0.749 ...

$ fBodyBodyGyroJerkMag.std.. : num -0.686 -0.744 -0.81 -0.863 -0.736 ...

Note: for the variables except the first two, I didn't provide detailed explanation here, just copy and paste from the str command.