

## newVariableNames

Below is a table with the variable names in tidy\_data. As all the names refer to mean values, the word mean was not added to the new variable name. Where found, the word "Count" was added to the variable name to reflect the use of "freq()" as opposed to the signal frequency in the original name (which was left in the new names).

Variable_name	Explanation
Subject	Number of subjects (1 to 30)
Activity	Name of activity done when measurement was taken (contains: Walking, Walking upstairs, walking downstairs, sitting, standing and laying)
xtime_accelero	Mean of raw time signal of accelerometer on X axis
y_time_accelero	Mean of raw time signal of accelerometer on Y axis
z_time_accelero	Mean of raw time signal of accelerometer on Z axis
x_time_gravity	Mean of signal for gravity acceleration on X axis
y_time_gravity	Mean of signal for gravity acceleration on Y axis
z_time_gravity	Mean of signal for gravity acceleration on Z axis
x_accelero_jerk	Mean of Jerk signal derived from linear acceleration and angular velocity on X axis
y_accelero_jerk	Mean of Jerk signal derived from linear acceleration and angular velocity on Y axis
z_accelero_jerk	Mean of Jerk signal derived from linear acceleration and angular velocity on Z axis
x_time_gyro	Mean of raw time signal for gyroscope on X axis
y_time_gyro	Mean of raw time signal for gyroscope on Y axis
z_time_gyro	Mean of raw time signal for gyroscope on Z axis
x_gyro_jerk	Mean of raw time signal for Jerk signal derived from gyroscope on X axis
y_gyro_jerk	Mean of raw time signal for Jerk signal derived from gyroscope on Y axis
z_gyro_jerk	Mean of raw time signal for Jerk signal derived from gyroscope on Z axis
time_accelero_mag	Mean of magnitude values for time acceleration signal
gravity_accelero_mag	Mean of magnitude values for gravity Jerk signal
accelero_jerk_mag	Mean of magnitude of acceleration Jerk signal
gyro_mag	Mean of magnitude of gyroscope signal
gyro_jerk_mag	Mean of magnitude of gyroscope's Jerk signal
x_freq_accelero	Mean of frequency of body acceleration on X axis
y_freq_accelero	Mean of frequency of body acceleration on Y axis

## newVariableNames

z_freq_accelero	Mean of frequency of body acceleration on Z axis
count_x_accelero_freq	Count of mean of frequency of body acceleration on X axis
y_accelero_mean_freq	Count of mean of frequency of body acceleration on Y axis
Count_z_accelero_freq	Count of mean of frequency of body acceleration on Z axis
x_freq_accelero_jerk	Mean of frequency of body acceleration Jerk signal on X axis
y_freq_accelero_jerk	Mean of frequency of body acceleration Jerk signal on Y axis
z_freq_accelero_jerk	Mean of frequency of body acceleration Jerk signal on Z axis
count_x_accelero_jerk_freq	Count of mean of frequency of acceleration Jerk signal on X axis
count_y_accelero_jerk_freq	Count of mean of frequency of acceleration Jerk signal on Y axis
count_z_accelero_jerk_freq	Count of mean of frequency of acceleration Jerk signal on Z axis
x_freq_gyro	Mean of frequency of body gyroscope signal on X axis
y_freq_gyro	Mean of frequency of body gyroscope signal on Y axis
count_z_freq_gyro	Mean of frequency of body gyroscope signal on Z axis
count_x_freq_gyro	Count of frequency of body gyroscope signal on X axis
y_freq_gyro_freq	Count of frequency of body gyroscope signal on Y axis
z_freq_gyro_freq	Count of frequency of body gyroscope signal on Z axis
freq_accelero_mag	Mean of frequency of body acceleration magnitude
count_accelero_mag_freq	Count of frequency value of body acceleration magnitude of mean
freq_accelero_jerk_mag	Mean of frequency of body acceleration Jerk signal magnitude
count_accelero_jerk_mag_freq	Count of frequency of body acceleration Jerk signal magnitude
freq_ryro_mag_freq	Mean of frequency of body gyroscope signal magnitude
count_gyro_mag_freq	Count of frequency of body gyroscope magnitude mean
freq_gyro_jerk	Mean of frequency of gyroscope Jerk signal magnitude
count_gyro_jerk_freq	Count of frequency of body gyroscope Jerk signal magnitude
angle_accelero_gravity	Angle of time signal of body acceleration mean and gravity
angle_accelero_jerk_gravity	Angle of time signal of body acceleration Jerk signal and gravity mean
angle_gyro_gravity	Angle of time signal for body gyroscope mean and gravity mean
angle_gyro_jerk_gravity	Angle of time signal for body gyroscope Jerk and gravity
x_angle_gravity	Mean of angle of gravity on X axis
y_angle_gravity	Mean of angle of gravity on Y axis

newVariableNames

z\_angle\_gravity

Mean of angle of gravity on Z axis