

Lumo Data Exercise Data Dictionary

Introduction

This provides a description of the raw activity data provided in the Lumo Data challenge. Specifically, the mapping between `act_type` to their meanings and the interpretation of `act_value`.

Data Dictionary

<u>act_type</u>	<u>description</u>
C_RDIST	Distance from running steps, in meters. $C_DIST - C_RDIST$ = distance walked.
C_STEPS	step count for one five minute slot
C_RSTEPS	Number of running steps. Should always be less than C_STEPS.
C_DIST	Distance walked or run in five minute timeslot, in meters
C_CVSEC	seconds with coach vibrations on
C_CVBUEZZ	number of coach vibration buzzes
C_CALIB	number of calibrations
CG	car good posture percentage for one five minute slot
CBS	car bad straight (backward) percentage for one five minute slot
CBF	car bad forward percentage for one five minute slot
SBS	sit bad straight (leaning back) percentage for one five minute slot
SBF	sit bad forward percentage for one five minute slot
SG	sit good posture percentage for one five minute slot
STBF	stand bad forward percentage for one five minute slot
STBS	stand bad straight (leaning back,description_short) percentage for one five minute slot
STG	stand good posture percentage for one five minute slot
W	walk percentage for one five minute slot
R	run percentage for one five minute slot
INACT	sensor thinks it is not on a person, percentage for one five minute slot
NW	sensor plugged into USB percentage for one five minute slot

Interpretation

The activity types are divided into two categories: counts and percentages. All count-based activities start with "C_". The rest are percentage-based. This difference changes the meaning of `act_value`. In the former case, `act_value` is simply a count, in the latter case `act_value` represents a percentage of 300 seconds.

<code>act_type = R</code> <code>act_value = 51</code> <code>act_time_local = 2014-04-16 14:35:00</code>	<code>act_type = C_RSTEPS</code> <code>act_value = 591</code> <code>act_time_local = 2014-04-16 14:35:00</code>
Meaning 51% of the time (153 seconds) between 14:35:00 and 14:39:59 was spent running.	Meaning 591 running steps were taken between 14:35:00 and 14:39:59