CodeBook

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05MAY2016

This code book describes the variables defined in the tidy1.txt dataset

The variable name in the derived dataset (summarybysubjectactivity.txt)

are the mean of each of those variables summarized by subject and activity

and are named meanofxxxx where xxx is the original variable name from tidy1

so for example timebodyaccelerationmeany becomes meanoftimebodyaccelerationmeany

in the summarized data set

ID	Variable Name	Type	measure	axis	domain	description	Unit
1	subject	NA	NA	NA	NA	subject ID	NA
2	activity	NA	NA	NA	NA	actvity	NA
3	timebodyaccelerationmeanx	acceleration	mean	x	time	body	g
4	timebodyaccelerationmeany	acceleration	mean	y	time	body	g
5	timebodyaccelerationmeanz	acceleration	mean	z	time	body	g
6	timebodyaccelerationstddevx	acceleration	std dev	x	time	body	g
7	timebodyaccelerationstddevy	acceleration	std dev	y	time	body	g
8	timebodyaccelerationstddevz	acceleration	std dev	z	time	body	g
9	timegravityaccelerationmeanx	acceleration	std dev	x	time	body	g
10	timegravityaccelerationmeany	acceleration	std dev	y	time	body	g
11	timegravityaccelerationmeanz	acceleration	std dev	z	time	body	g
12	timegravityaccelerationstddevx	acceleration	std dev	x	time	gravity	g
13	timegravityaccelerationstddevy	acceleration	std dev	y	time	gravity	g
14	timegravityaccelerationstddevz	acceleration	std dev	z	time	gravity	g
15	timebodyaccelerationjerkmeanx	acceleration	mean	x	time	jerk	g
16	timebodyaccelerationjerkmeany	acceleration	mean	y	time	jerk	g

ID	Variable Name	Type	measure	axis	domain	description	Unit
17	timebodyaccelerationjerkmeanz	acceleration	mean	z	time	jerk	g
18	timebodyaccelerationjerkstddevx	acceleration	std dev	x	time	jerk	g
19	timebodyaccelerationjerkstddevy	acceleration	std dev	y	time	jerk	g
20	timebodyaccelerationjerkstddevz	acceleration	std dev	z	time	jerk	g
21	timebodygyroscopemeanx	gyroscope	mean	x	time	body	rad/s
22	timebodygyroscopemeany	gyroscope	mean	y	time	body	rad/s
23	timebodygyroscopemeanz	gyroscope	mean	z	time	body	rad/s
24	timebodygyroscopestddevx	gyroscope	std dev	x	time	body	rad/s
25	timebodygyroscopestddevy	gyroscope	std dev	y	time	body	rad/s
26	timebodygyroscopestddevz	gyroscope	std dev	z	time	body	rad/s
27	timebodygyroscopejerkmeanx	gyroscope	mean	x	time	jerk	rad/s
28	timebodygyroscopejerkmeany	gyroscope	mean	y	time	jerk	rad/s
29	timebodygyroscopejerkmeanz	gyroscope	mean	z	time	jerk	rad/s
30	timebodygyroscopejerkstddevx	gyroscope	std dev	x	time	jerk	rad/s
31	timebodygyroscopejerkstddevy	gyroscope	std dev	y	time	jerk	rad/s
32	timebodygyroscopejerkstddevz	gyroscope	std dev	z	time	jerk	rad/s
33	timebodyaccelerationmagnitudestddev	acceleration	std dev	NA	time	magnitude	g
34	timegravityaccelerationmagnitudestddev	acceleration	std dev	NA	time	magnitude	g
35	timebodyaccelerationjerkmagnitudestddev	acceleration	std dev	NA	time	magnitude	g
36	timebodygyroscopemagnitudestddev	gyroscope	std dev	NA	time	magnitude	rad/s
37	timebodygyroscopejerkmagnitudestddev	acceleration	std dev	x	time	magnitude	rad/s
38	frequencybodyaccelerationmeanx	acceleration	mean	x	frequency	body	Hz
39	frequencybodyaccelerationmeany	acceleration	mean	y	frequency	body	Hz
40	frequencybodyaccelerationmeanz	acceleration	mean	z	frequency	body	Hz
41	frequencybodyaccelerationstddevx	acceleration	std dev	x	frequency	body	Hz
42	frequencybodyaccelerationstddevy	acceleration	std dev	y	frequency	body	Hz

ID	Variable Name	Type	measure	axis	domain	description	Unit
43	frequencybodyaccelerationstddevz	acceleration	std dev	x	frequency	body	Hz
44	frequencybodyaccelerationjerkmeanx	acceleration	mean	x	frequency	jerk	Hz
45	frequencybodyaccelerationjerkmeany	acceleration	mean	y	time	jerk	Hz
46	frequencybodyaccelerationjerkmeanz	acceleration	mean	z	time	jerk	Hz
47	frequencybodyaccelerationjerkstddevx	acceleration	std dev	x	frequency	jerk	Hz
48	frequencybodyaccelerationjerkstddevy	acceleration	std dev	y	frequency	jerk	Hz
49	frequencybodyaccelerationjerkstddevz	acceleration	std dev	z	frequency	jerk	Hz
50	frequencybodygyroscopemeanx	gyroscope	mean	x	frequency	body	Hz
51	frequencybodygyroscopemeany	gyroscope	mean	y	frequency	body	Hz
52	frequencybodygyroscopemeanz	gyroscope	mean	z	frequency	body	Hz
53	frequencybodygyroscopestddevx	gyroscope	std dev	x	frequency	body	Hz
54	frequencybodygyroscopestddevy	gyroscope	std dev	y	frequency	body	Hz
55	frequencybodygyroscopestddevz	gyroscope	std dev	z	frequency	body	Hz
56	frequencybodyaccelerationmagnitudestddev	acceleration	std dev	NA	frequency	magnitude	Hz
57	frequencybodybodyaccelerationjerkmagnitudestddev	acceleration	std dev	NA	frequency	jerk	Hz
58	frequencybodybodygyroscopemagnitudestddev	gyroscope	std dev	NA	frequency	magnitude	Hz
59	frequencybodybodygyroscopejerkmagnitudestddev	gyroscope	std dev	NA	frequency	jerk	Hz