



UNIVERSITY
OF TRENTO - Italy



Dipartimento di Ingegneria e Scienza dell'Informazione

KnowDive Group

SU2 Time Diaries Codebook

Date	Reference persons
2022.02.01 v0.1	Matteo Busso

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Revision History

Revision	Date	Author	Description of Changes
0.1	2022.02.01	Matteo Busso	Document created

Data report overview

The dataset examined has the following dimensions:

Feature	Result
Number of observations	168095
Number of variables	13

Codebook summary table

Label	Variable	Class	unique values	Missing
The participant's identifier	<i>userid</i>	numeric	158	0.00 %
Date and time when the notification had to be sent by the server	<i>dt</i>	POSIXct	1063	0.00 %
Date when the notification was to be sent by the server (Missing = No notification sent)	<i>questiontimestamp</i>	POSIXct	906	37.88 %
Date and time when the notification was received by the user (Missing = No notification received)	<i>notificationtimestamp</i>	POSIXct	102877	37.88 %
Date and time when the notification was answered by the user (Missing = No answer)	<i>answertimestamp</i>	POSIXct	102307	37.88 %
Time elapsed for answering the notification	<i>answerduration</i>	numeric	22338	37.88 %
Time elapsed between sending the notification and its response	<i>delta</i>	numeric	87058	37.88 %
What are you doing?	<i>what</i>	factor	23	37.88 %
How are you moving?	<i>how</i>	factor	7	94.86 %
Where are you?	<i>where</i>	factor	17	52.59 %
With whom are you?	<i>withwhom</i>	factor	9	47.50 %
What is your mood?	<i>mood</i>	numeric	6	47.50 %
Weeks of the experiment. During the first two weeks, questions were asked every half hour; during the second two they were reduced to every two hours.	<i>week</i>	character	2	0.00 %

Daily contributions

1st Weeks

userid	W	T	F	S	S	M	T	W	T	M	S	S	M	T	W	userid	W	T	M	S	S	M	T	W	T	M	S	S	M	T	W
0	35	28	34	38	35	36	35	30	28	27	27	17	18	15	28	79	31	46	48	29	39	44	47	48	48	45	41	44	42	44	47
1	37	46	38	34	31	33	42	42	48	48	48	45	43	48	46	80	29	29	35	33	29	29	29	32	28	29	30	33	31	28	32
2	27	23	29	29	28	26	27	25	26	27	27	14	28	23	27	81	33	45	36	38	40	29	36	33	34	36	36	32	39	32	34
3	34	34	38	38	34	33	37	47	32	34	31	30	32	30	31	82	36	47	36	32	34	37	45	44	44	42	34	33	37	40	41
4	33	43	32	44	36	48	48	48	44	40	27	44	37	36	21	83	29	19	15	28	21	11	19	21	18	28	7	10	26	35	34
5	36	45	48	46	48	44	36	46	48	44	48	48	47	46	47	84	35	33	38	32	43	33	31	33	36	35	32	31	33	37	31
6	37	46	45	44	48	46	38	36	34	32	28	46	48	47	43	85	33	46	34	47	45	41	47	46	47	46	45	46	46	47	47
7	32	30	48	47	47	47	47	47	46	48	47	48	41	44	47	86	35	31	40	31	36	33	34	44	33	32	38	37	26	24	32
8	29	31	30	24	29	22	19	18	26	25	30	16	28	32	28	87	33	42	30	46	48	47	47	47	42	46	47	47	30	46	46
9	26	42	41	43	37	38	45	40	28	42	35	35	34	42	39	88	34	33	33	34	34	37	33	25	36	36	30	25	28	37	35
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16	17	45	40	28	29	34	41	45	19	46	44	30	29	41	43	95	27	38	25	40	44	39	34	44	37	36	44	24	46	42	22
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24	31	23	42	23	36	31	48	35	34	28	30	27	32	33	46	103	31	46	47	0	38	35	31	29	31	45	31	17	32	17	17
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29	37	33	36	29	29	29	31	23	41	39	30	32	31	31	41	108	31	40	35	43	48	45	42	42	45	41	42	48	29	40	40
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31	0	45	46	47	43	47	48	44	37	35	33	19	45	40	21	110	33	22	24	29	35	26	24	26	23	22	17	11	13	34	25
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41	25	26	25	22	31	32	34	30	34	28	29	29	25	28	31	120	31	27	34	33	41	34	31	37	33	16	30	39	36	33	23
42	35	35	28	33	32	32	31	36	30	33	34	25	31	33	34	121	33	37	42	38	38	48	44	42	48	47	38	32	43	47	47
43	36	45	48	48	46	48	48	42	46	46	44	47	43	45	48	122	37	47	46	45	47	47	48	46	46	46	48	47	45	45	46
44	32	43	47	47	46	37	44	45	41	46	48	45	42	46	25	123	37	38	45	48	48	45	44	42	38	29	33	45	47	44	44
45	29	34	48	41	46	44	34	43	33	39	35	40	35	31	36	124	32	35	36	39	35	32	34	26	29	26	33	35	32	22	32
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47	37	46	44	35	46	48	48	44	46	48	46	46	26	39	39	126	28	44	42	48	40	41	48	41	47	45	48	48	45	45	42
48	32	36	41	32	43	36	36	41	36	48	48	47	42	43	39	127	33	31	35	30	31	28	37	30	36	30	38	37	30	33	22
49	32	47	31	30	38	41	48	31	43	24	37	39	41	34	47	128	26	28	19	48	13	48	47	48	48	45	32	18	47	36	32
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51	35	30	26	24	34	30	35	35	29	34	31	31	37	33	32	130	30	16	20	29	10	29	32	13	32	33	34	35	28	35	24
52	32	30	32	35	39	36	31	32	32	29	31	32	28	32	27	131	27	47	50	35	26	47									

SU2 Time Diaries Codebook(v0.1)

66	34	46	39	46	48	45	46	48	44	43	43	41	48	42	43	145	35	39	39	48	44	42	34	44	48	48	48	47	45	48	42
67	36	31	47	45	48	47	41	45	44	37	48	47	47	45	36	146	25	32	35	34	43	36	33	30	37	28	20	26	33	34	34
68	30	34	30	9	14	31	32	38	38	34	34	32	33	40	37	147	30	43	48	43	42	43	48	48	46	46	43	39	42	42	41
69	34	27	32	23	29	36	32	34	35	30	11	28	29	34	25	148	22	37	37	37	33	36	33	38	39	37	30	27	33	31	37
70	21	25	19	30	30	28	25	20	27	26	22	18	28	24	30	149	31	27	34	29	28	28	31	34	28	24	27	33	29	23	35
71	3	7	25	47	25	35	32	20	42	42	36	35	31	34	44	150	28	37	37	29	28	35	30	38	37	35	39	29	35	31	40
72	36	46	45	32	47	41	22	26	43	40	44	44	39	43	41	151	33	33	48	31	34	30	31	29	31	29	35	35	30	37	39
73	35	30	39	18	9	17	35	36	13	24	36	33	14	24	29	152	32	35	31	27	38	33	31	35	36	30	31	31	28	34	33
74	36	26	29	22	31	36	36	32	28	21	22	26	32	34	34	153	26	35	32	22	22	34	24	23	32	46	24	45	29	27	15
75	17	33	27	33	27	30	38	38	38	31	35	17	26	32	33	154	24	36	31	32	35	34	28	28	35	37	29	29	31	34	30
76	25	34	31	48	48	45	34	23	43	33	40	28	44	41	31	155	22	27	48	48	48	34	44	39	31	48	48	33	38	44	45
77	17	25	44	20	9	42	43	42	25	41	40	24	36	48	31	156	26	38	37	41	41	47	22	31	43	35	36	28	44	42	46
78	5	22	48	43	37	38	40	47	36	35	5	12	7	5	9	157	37	42	44	48	48	48	39	46	44	35	43	41	41	41	41

Table 1. Daily answers to the time diaries question for each participant for the firsts two weeks

2nd Weeks

userid	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	userid	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	
0	24	3	1	3	0	0	0	0	0	0	0	0	0	0	0	79	37	4	12	11	12	10	12	11	7	9	12	11	12	11	10	
1	28	3	4	0	2	3	3	0	8	6	5	5	4	5	6	80	20	3	8	8	12	10	8	7	8	8	8	9	8	12	8	
2	21	2	6	3	6	7	7	7	7	5	5	6	7	9	4	81	27	4	10	7	9	11	8	8	9	8	9	9	9	8	10	
3	9	1	0	0	0	0	0	0	0	0	0	0	0	0	0	82	28	3	8	12	11	8	10	12	10	9	9	10	9	11	9	
4	14	4	9	11	7	11	9	10	8	12	9	10	11	8	7	83	21	3	4	1	0	0	6	6	4	9	3	7	3	4	9	
5	37	3	0	0	0	0	0	0	0	0	0	0	0	0	0	84	36	2	8	9	9	8	9	10	9	9	9	9	9	9	9	
6	37	4	0	0	0	6	11	10	6	11	11	12	11	10	8	85	37	3	12	12	10	12	12	11	12	12	12	12	12	11	4	
7	36	4	7	12	11	12	12	9	11	11	12	10	9	10	12	86	21	4	8	7	7	7	8	9	8	8	8	8	9	8	9	
8	24	3	6	7	5	4	9	8	5	7	8	6	0	3	6	87	37	2	0	0	0	0	0	0	0	0	0	0	0	0	0	
9	33	3	8	5	8	5	10	12	9	8	9	8	8	10	10	88	20	4	8	7	6	8	8	7	7	10	10	7	7	9	6	
10	24	4	8	7	7	6	6	7	8	8	6	6	8	8	2	89	21	2	9	9	4	9	8	8	9	9	9	7	8	9	9	
11	22	4	4	0	0	0	0	0	0	0	0	0	0	0	0	90	32	4	12	10	10	10	11	11	9	11	11	11	9	5	12	
12	28	2	4	12	11	8	7	12	11	8	7	11	12	2	5	91	16	0	7	10	10	8	3	3	6	2	2	3	8	5	8	
13	33	4	0	0	0	0	0	0	0	0	0	0	0	0	0	92	32	4	11	12	12	9	10	6	11	12	9	9	11	8	9	
14	27	4	10	11	9	7	9	11	4	11	5	5	0	7	11	93	36	4	9	11	10	11	7	10	8	10	9	11	9	10	6	
15	24	4	7	4	5	6	6	6	7	6	5	6	7	5	6	94	12	2	10	5	5	3	4	7	5	7	7	2	5	3	7	
16	36	4	7	8	9	4	8	11	8	5	5	7	9	6	7	95	36	4	11	11	10	8	10	6	10	11	9	9	11	11	11	
17	36	4	12	8	10	9	7	8	5	11	8	11	11	7	9	96	23	4	7	9	9	10	8	7	7	11	9	9	7	12	10	
18	18	4	5	5	7	6	8	7	4	8	5	5	4	5	7	97	35	2	10	6	11	11	11	9	12	7	0	0	3	2	4	
19	27	3	8	6	8	10	10	12	12	8	10	8	10	12	12	98	23	2	7	6	6	9	9	6	7	8	8	8	7	8	7	
20	35	4	12	12	1	8	11	11	8	11	11	8	12	12	12	99	26	3	9	9	9	7	10	8	3	8	6	10	8	6	8	
21	35	3	11	12	10	10	12	12	11	11	10	12	12	11	11	100	24	0	10	11	10	10	10	10	11	10	4	10	11	10	12	
22	37	3	7	12	5	12	6	12	10	12	12	12	12	11	11	101	25	4	12	5	11	9	8	10	11	10	9	9	12	12	0	
23	15	2	12	10	5	8	11	5	6	3	1	7	4	4	4	102	9	1	4	5	7	5	7	8	2	2	4	6	5	2	4	
24	33	2	8	6	7	7	9	7	6	4	9	9	9	6	7	103	16	2	0	0	0	0	0	0	0	0	0	0	0	0	0	
25	30	3	8	9	10	9	8	9	10	8	9	9	9	8	9	104	33	4	12	12	12	9	11	11	11	10	11	11	9	10	12	
26	32	4	11	7	6	12	10	11	11	11	10	9	8	9	9	105	35	2	12	7	12	12	11	12	8	12	9	6	12	12	12	
27	10	4	7	8	9	9	7	10	8	5	4	9	5	7	8	106	37	3	8	8	9	10	6	6	8	9	12	9	11	11	11	
28	7	4	9	7	8	9	8	7	8	8	2	3	8	10	10	107	35	4	10	11	8	12	11	9	7	0	9	7	10	7	12	
29	18	2	6	9	9	8	0	6	8	6	9	8	9	8	9	108	28	4	11	10	11	11	8	9	10	8	0	0	4	12	6	
30	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	109	12	3	9	9	7	3	2	12	5	9	2	9	1	9	4	
31	2	0	5	12	8	12	8	1	9	6	9	0	5	10	6	110	26	4	3	0	0	0	0	0	0	0	0	0	0	0	0	
32	37	4	8	8	12	12	12	10	12	11	12	8	12	10	12	111	36	4	11	12	11	12	10	12	10	12	12	10	11	12	9	
33	27	3	6	5	7	7	9	4	8	8	9	8	6	8	10	112	25	4	9	10	9	9	8	8	8	9	6	7	9	8	7	
34	31	3	5	8	7	6	10	9	7	9	7	2	4	6	4	113	30	3	6	6	6	9	4	9	3	3	5	2	4	6	4	
35	28	4	7	8	8	9	9	9	9	6	8	8	8	9	7	114	6	3	5	7	7	6	7	6	6	9	7	7	3	7	3	
36	35	3	10	12	10	11	9	9	6	11	11	4	8	9	6	115	35	4	12	11	5	11	5	10	3	5	11	11	10	10	12	
37	36	3	11	11	8	10	9	6	7	9	10	12	4	8	0	116	37	2	7	11	9	10	6	11	12	11	10	12	11	7	12	
38	20	4	4	8	10	7	6	0	0	0	0	0	0	0	0	117	34	4	10	7	9	12	12	11	8	7	10	8	11	9	7	
39	16	4	5	3	0	4	3	2	8	3	8	6	6	5	6	118	35	3	8	9	10	12	12	9	12	11	10	9	10	9	12	
40	26	4	10	8	8	11	11	9	12	11	12	6	9	11	6	119	16	4	7	7	10	8	8	7	9	8	8	9	6	9	8	
41	27	2	8	9	8	9	10	8	7	7	4	7	3	2	6	120	25	2	6	9	7	7	8	7	8	7	4	7	8	5	7	
42	22	4	7	3	9	9	7	7	6	9	3	7	7	6	7	121	35	2	9	11	10	11	9	10	7	10	10	6	10	11	11	
43	33	4	12	12	8	11	12	8	10	11	9	11	12	11	8	122	37	4	11	11	11	12	12	12	12	12	12	12	10	10	11	
44	34	4	11	11	12	11	12	12	8	12	11	8	10	11	10	123	3	2	7	6	1	6	5	0	0	0	0	0	0	0	0	0
45	32	2	1	8	5	9	10	9	6	1	6	7	10	10	4	124	24	3	7	10	10	9	7	9	9	6	6	10	9	7	7	
46	35	4	9	12	10	10	10	9	11	12	9	11	11	11	11	125	34	3	6	0	0	0	0	0	0	0	0	0	0	0	0	0
47	26	4	8	12	12	12	9	12	12	12	11	12	11	9	12	126	34	2	11	8	11	11	12	7	8	12	9	10	4	12	11	
48	31	3	12	12	9	11	11	11	12	11	10	12	11	11	12	127	27	3	8	9	9	8	10	9	8	9	8	9	6	9	10	11
49	36	4	8	7	10	8	10	9	6	12	12	11	8	8	8	128	28	4	12	11	11	11	11	6	2	11	11	10	6	10	11	
50	11	4	8	6	8	5	5	4	7	7	6	6	8	3	8	129	23	2	8	8	3	12	8	12	12	11	6	4	4	4	7	

SU2 Time Diaries Codebook(v0.1)

51	21	4	10	11	11	9	10	10	6	6	9	6	10	4	3	130	17	1	6	7	5	7	8	7	6	8	7	4	9	8	3
52	23	4	8	6	8	7	8	7	8	8	7	8	7	9	7	131	24	2	4	7	11	8	5	12	4	5	12	9	12	4	2
53	37	3	10	12	9	7	11	12	11	11	12	11	11	10	9	132	36	4	11	4	12	8	12	12	12	12	9	7	12	11	11
54	21	2	1	8	9	9	9	10	8	8	6	6	0	0	3	133	25	4	9	3	5	5	8	3	5	8	2	2	7	4	6
55	24	2	0	0	0	0	0	0	0	0	0	0	0	0	0	134	17	2	6	5	5	5	9	9	4	0	11	9	8	8	8
56	37	4	10	10	12	12	12	11	11	11	12	12	11	11	12	135	36	4	10	12	12	12	11	10	9	11	12	11	12	11	12
57	37	2	4	9	12	11	9	12	10	9	11	12	7	1	8	136	35	4	6	7	10	12	10	9	8	10	10	8	10	12	12
58	27	6	9	9	9	8	7	8	7	7	9	9	6	6	7	137	23	4	10	8	10	7	7	8	10	7	9	7	4	6	9
59	28	2	11	5	5	11	8	0	6	6	10	0	0	2	7	138	9	3	5	4	7	6	7	6	5	7	7	7	3	6	6
60	15	3	10	7	8	5	6	10	6	2	3	9	4	10	10	139	37	4	11	12	12	12	11	9	12	11	12	10	7	10	5
61	37	4	11	11	9	5	11	11	0	11	1	4	9	12	12	140	30	4	6	7	10	8	8	10	9	9	10	9	8	9	8
62	12	2	5	5	4	8	0	8	10	1	0	7	4	3	2	141	22	0	7	7	8	7	2	8	6	2	5	2	3	4	7
63	28	2	12	12	12	12	10	11	10	8	12	12	12	11	10	142	31	2	12	12	12	7	12	8	7	12	12	11	11	12	12
64	24	4	8	9	11	10	8	7	8	9	8	7	9	9	9	143	16	4	5	7	9	6	3	7	6	3	0	0	7	4	7
65	29	3	11	3	5	2	8	5	5	10	6	3	6	5	7	144	26	4	8	6	4	2	10	12	11	8	12	10	9	8	7
66	37	3	10	11	11	10	10	11	12	11	11	8	1	9	7	145	37	4	11	11	12	12	12	11	10	11	12	8	10	12	12
67	36	3	8	8	11	12	11	12	9	12	11	10	12	12	10	146	20	4	9	9	8	7	8	8	8	8	12	8	8	9	8
68	20	4	10	6	8	10	8	9	9	10	8	9	9	9	9	147	26	2	11	7	12	12	9	12	11	11	6	11	9	11	12
69	15	2	5	8	6	8	9	7	2	9	3	3	1	9	1	148	26	2	3	0	0	0	0	0	0	0	0	0	0	0	0
70	22	4	8	3	0	8	5	7	8	6	5	4	11	8	7	149	16	2	6	9	6	7	6	8	8	7	9	6	5	5	8
71	21	2	0	0	0	0	0	0	0	0	0	0	0	0	0	150	29	3	8	8	6	8	7	8	6	11	4	0	1	7	7
72	35	3	6	12	11	9	11	11	9	11	8	10	11	11	12	151	17	4	12	12	8	9	9	8	6	8	8	7	7	8	9
73	34	1	0	4	0	8	4	3	6	2	0	1	0	6	6	152	22	2	9	9	5	9	7	9	5	10	8	8	9	9	9
74	20	4	8	6	7	8	1	6	7	6	3	7	9	7	6	153	34	3	9	12	11	11	10	12	8	12	4	11	12	11	2
75	24	4	8	8	9	7	7	6	8	8	7	8	9	12	6	154	28	4	7	7	8	7	8	8	8	6	7	9	6	7	6
76	29	1	0	6	0	9	6	8	5	5	5	0	7	9	8	155	29	3	6	12	11	12	7	10	12	6	9	12	10	9	10
77	13	1	9	12	7	9	6	7	7	11	9	7	0	10	6	156	35	4	9	11	8	10	4	10	9	7	6	6	9	9	9
78	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157	31	4	10	10	12	10	10	11	9	10	10	12	8	6	12

Table 2. Daily answers to the time diaries question for each participant for the second two weeks

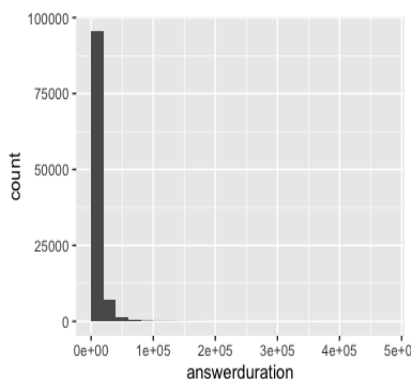


Variable list

answerduration

Time elapsed for answering the notification

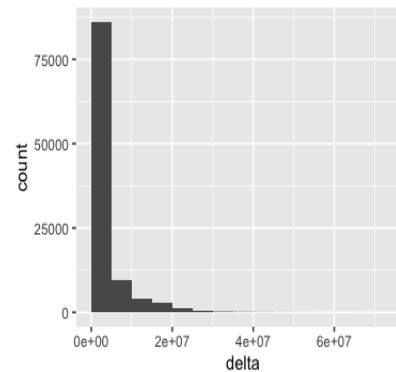
Feature	Result
Variable type	numeric
Number of missing obs.	63681 (37.88 %)
Number of unique values	22337
Median	8106
1st and 3rd quartiles	5760.25; 11800.75
Min. and max.	0; 462960



delta

Time elapsed between sending the notification and its response

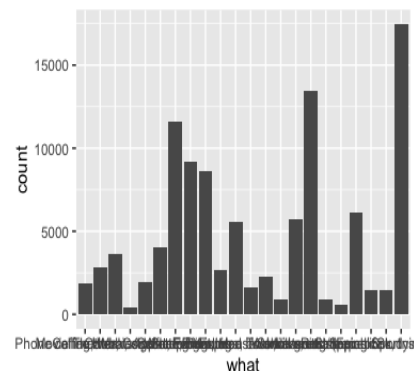
Feature	Result
Variable type	numeric
Number of missing obs.	63681 (37.88 %)
Number of unique values	87057
Median	808813
1st and 3rd quartiles	101560.75; 3226259
Min. and max.	0; 73881685



what

What are you doing?

Feature	Result
Variable type	factor
Number of missing obs.	63681 (37.88 %)
Number of unique values	22
Mode	"Studying"
Reference category	Phone calling; WhatsApp



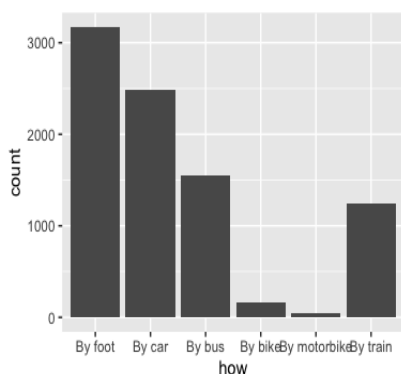
Observed factor levels: "Coffee break, cigarette, beer, etc.", "Eating", "En route", "Expired", "Hobbies", "Housework", "I will go to sleep", "Lesson", "Movie Theater, Concert, Exhibit,...", "Other", "Phone calling; WhatsApp", "Reading a book; listening to music", "Rest/nap", "Selfcare", "Shopping", "Sleeping", "Social life", "Social media (Facebook, Instagram, etc.)", "Sport", "Studying", "Watcing Youtube, Tv-shows, etc.", "Work".

SU2 Time Diaries Codebook(v0.1)

how

How are you moving?

Feature	Result
Variable type	factor
Number of missing obs.	159448 (94.86 %)
Number of unique values	6
Mode	"By foot"
Reference category	By foot

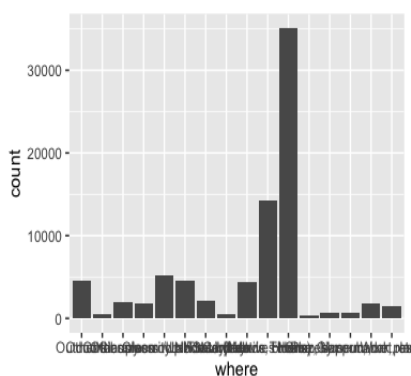


Observed factor levels: "By bike", "By bus", "By car", "By foot", "By motorbike", "By train".

where

Where are you?

Feature	Result
Variable type	factor
Number of missing obs.	88402 (52.59 %)
Number of unique values	16
Mode	"Home"
Reference category	Outdoors

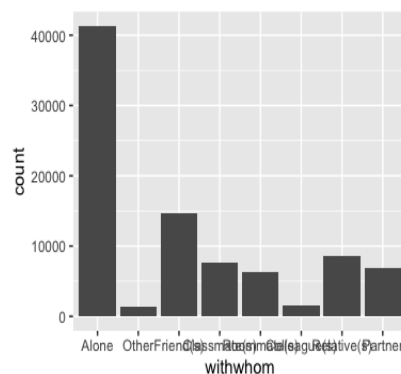


Observed factor levels: "Canteen", "Classroom / Laboratory", "Classroom / Study hall", "Gym", "Home", "House (friends, others)", "Movie Theater, Museum, ...", "Other Library", "Other place", "Other university place", "Outdoors", "Pizzeria, pub, bar, restaurant", "Relatives Home", "Shop, supermarket, etc", "UNITN Library", "Work place".

withwhom

With whom are you?

Feature	Result
Variable type	factor
Number of missing obs.	79840 (47.5 %)
Number of unique values	8
Mode	"Alone"
Reference category	Alone



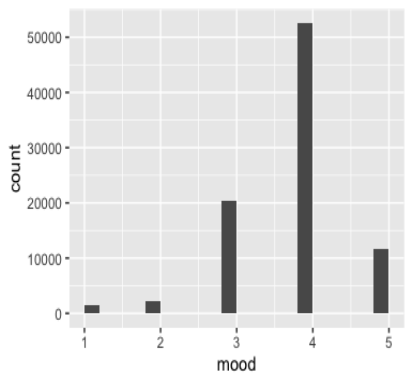
Observed factor levels: "Alone", "Classmate(s)", "Colleague(s)", "Friend(s)", "Other", "Partner", "Relative(s)", "Roommate(s)".

mood

What is your mood?

Feature	Result
Variable type	numeric
Number of missing obs.	79840 (47.5 %)
Number of unique values	5
Median	4
1st and 3rd quartiles	3; 4
Min. and max.	1; 5

SU2 Time Diaries Codebook(v0.1)

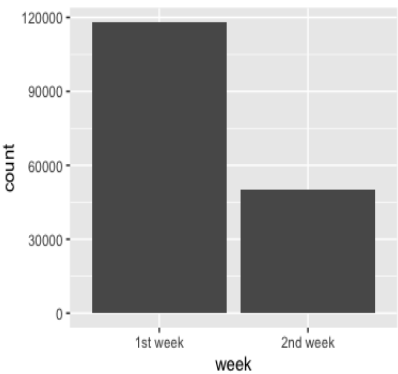


week

Weeks of the experiment. During the first two weeks, questions were asked every half hour; during the second two they were reduced to every two hour.

Feature	Result
Variable type	character

Number of missing obs.	0 (0 %)
Number of unique values	2
Mode	"1st week"



Observed factor levels: "1st week", "2nd week".