

APPENDIX 1: Study Data Description

Primary Data file description of:

Smartphone-based Unobtrusive Ecological Momentary Assessment of Day-to-Day Mood: # An Explorative Study.

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Variable Name	Variable Description
Participant identification	
id	subject id, factor with 27 levels (AS14.01 .. AS14.33)
Time	
time	day of year (in 2014, 1)
stime	days in study (3-42)
EMA Self-reports	
mood	EMA mood: uni-dimensional (1-10); daily average.
valence	EMA mood: circumplex two-dimensional, valence (-2 to 2); daily average.
arousal	EMA mood: circumplex two-dimensional, arousal (-2 to 2); daily average.
UEMA predictors	
Photo camera log	
image.n	number of photo's taken on smartphone.
SMS log	
sms.c1c	number of SMS's sent to top SMS contact #1 (normalised histogram).
sms.c2c	number of SMS's sent to top SMS contact #2 (normalised histogram).
sms.c3c	number of SMS's sent to top SMS contact #3 (normalised histogram)
sms.c4c	number of SMS's sent to top SMS contact #4 (normalised histogram)
sms.c5c	number of SMS's sent to top SMS contact #5 (normalised histogram)
Call log	
call.c1c	number of calls made to top call contact #1 (normalised histogram)
call.c2c	number of calls made to top call contact #2 (normalised histogram)
call.c3c	number of calls made to top call contact #3 (normalised histogram)
call.c4c	number of calls made to top call contact #4 (normalised

	histogram
call.c5c	number of calls made to top call contact #5 (normalised histogram)
call.c1d	duration of calls made to top call contact #1 (normalised histogram)
call.c2d	duration of calls made to top call contact #2 (normalised histogram)
call.c3d	duration of calls made to top call contact #3 (normalised histogram)
call.c4d	duration of calls made to top call contact #3 (normalised histogram)
call.c5d	duration of calls made to top call contact #4 (normalised histogram)

Application launcher logs (top 5 apps)

app.a1c	number of times top app #1 was launched (normalised histogram)
app.a2c	number of times top app #2 was launched (normalised histogram)
app.a3c	number of times top app #3 was launched (normalised histogram)
app.a4c	number of times top app #4 was launched (normalised histogram)
app.a5c	number of times top app #5 was launched (normalised histogram)
app.a1d	duration of use of top app #1 (normalised histogram)
app.a2d	duration of use of top app #2 (normalised histogram)
app.a3d	duration of use of top app #3 (normalised histogram)
app.a4d	duration of use of top app #4 (normalised histogram)
app.a5d	duration of use of top app #5 (normalised histogram)

Application launcher logs (categorised apps)

appCat.builtin.n	app use frequency (3-day normalised histogram)
appCat.communication.n	app use frequency (3-day normalised histogram)
appCat.entertainment.n	app use frequency (3-day normalised histogram)
appCat.finance.	app use frequency (3-day normalised histogram)
appCat.game.n	app use frequency (3-day normalised histogram)
appCat.office.n	app use frequency (3-day normalised histogram)
appCat.social.n	app use frequency (3-day normalised histogram)
appCat.travel.n	app use frequency (3-day normalised histogram)
appCat.utilities.n	app use frequency (3-day normalised histogram)
appCat.weather.n	app use frequency (3-day normalised histogram)
appCat.other.n	app use frequency (3-day normalised histogram)
appCat.unknown.n	app use frequency (3-day normalised histogram)
appCat.builtin.sum	app use duration (normalised histogram)

appCat.communication.sum	app use duration (normalised histogram)
appCat.entertainment.sum	app use duration (normalised histogram)
appCat.finance.sum	app use duration (normalised histogram)
appCat.game.sum	app use duration (normalised histogram)
appCat.office.sum	app use duration (normalised histogram)
appCat.social.sum	app use duration (normalised histogram)
appCat.travel.sum	app use duration (normalised histogram)
appCat.utilities.sum	app use duration (normalised histogram)
appCat.weather.sum	app use duration (normalised histogram)
appCat.other.sum	app use duration (normalised histogram)
appCat.unknown.n	app use duration (normalised histogram)
Screen log	
screen.duration	average screen duration, per screen-on moment (standardized within participant)
screen.n	screen-on frequency (standardized within participant)
Accelerometer	
accelerometer.high	average percentage of high accelerometer data points
Lagged EMA self-report	
mood.l1	unidimensional mood (EMA), lag 1
mood.l2	unidimensional mood (EMA), lag 2
valence.l1	two-dimensional mood - valence (EMA circumplex), lag 1
valence.l2	two-dimensional mood - valence (EMA circumplex), lag 2
arousal.l1	two-dimensional mood - arousal (EMA circumplex), lag 1
arousal.l2	two-dimensional mood - arousal (EMA circumplex), lag 2