

## README

This repository includes the stimuli sets of all three experiments (stimulus\_set.rar), the data analyzed (datasets.rar) and the analyses reported (Yayaetal.html) in the manuscript "Are We Taking Too Many Pictures? An Investigation of the Impact of Smartphone Photography on Memory" (Yaya et al.).

### 1. Mnemonics for the data file concerning: Data\_EXPERIMENT 1

#### *Colum labels*

Part no

Name

Surname

Gender

Age

Occupation

Counterbalance

Condition

Flanker

PMPUQ-TOT

SAS-TOT

PA-TOT

Recog\_ACC

Recog\_RT

Conf\_rate

#### *The cell values refers to...*

The code assigned to each participant

Anonymised column

Anonymised column

Gender of each participant

Age of each participant

Occupational status of each participant

Counterbalancing of the six different stimuli blocks used for encoding and recognition (as described in Materials of the main manuscript) between participants

Experimental groups:  
1-capture = one-photo group  
8-capture = multiple-photo group  
no-capture = no-photo group

Total score of the Flanker-task of each participant

Total score of the Problematic Mobile Phone Use Questionnaire (PMUQ) of each participant

Total score of the The Smartphone Addiction Scale Short Version (SAS) of each participant

Total score of the Perceived Attachment to Phones Scale (PA) for each participant

Summed accuracy scores (i.e., Hit and Correct Recognition) of each participant

Mean reaction times in *ms* of overall recognition responses (measured time from trial onset to key press in *ms*)

Mean overall confidence scores for each participant

## Are We Taking Too Many Pictures? An Investigation of the Impact of Smartphone Photography on Memory"

Confid_RT	Mean reaction times of overall confidence responses (measured time from trial onset to key press in <i>ms</i> )
RT_aver_incor	Mean reaction times of incorrect recognition responses (i.e., Miss and False Alarms) (measured time from trial onset to key press in <i>ms</i> )
RT_aver_cor	Mean reaction times of correct recognition responses (i.e., Hits and Correct Rejections) (measured time from trial onset to key press in <i>ms</i> )
Conf_aver_incor	Mean confidence scores for incorrect responses (i.e., Miss and False Alarm) of each participant
Conf_aver_cor	Mean confidence scores for correct responses (i.e., Hit and Correct Rejections) of each participant

## 2. Mnemonics for the data file concerning: Data\_EXPERIMENT 2

### *Colum labels*

### *The cell values refers to...*

Study	Number of Study (=2) in the manuscript
Participant	The code assigned to each participant
Name	Anonymised column
Surname	Anonymised column
Gender	Gender of each participant
Age	Age of each participant
Occupation	Occupational status of each participant
Counterbalance	Counterbalancing of the six different stimuli blocks used for encoding and recognition (as described in Materials of the main manuscript) between participants
Condition	Experimental groups: 1-capture = one-photo group 8-capture = multiple-photo group no-capture = no-photo group
Flanker	Total score of the Flanker-task of each participant
PMPUQ-TOT	Total score of the Problematic Mobile Phone Use Questionnaire (PMUQ) of each participant
SAS-TOT	Total score of the The Smartphone Addiction Scale Short Version (SAS) of each participant
PA-TOT	Total score of the Perceived Attachment to Phones Scale (PA) for each participant
Recog_ACC	Summed accuracy scores (i.e., Hit and Correct Recognition) of each participant
Recog_RT	Mean reaction times in <i>ms</i> of overall recognition responses (measured time from trial onset to key press in <i>ms</i> )
Conf_rate	Mean overall confidence scores for each participant
Confid_RT	Mean reaction times of overall confidence responses (measured time from trial onset to key press in <i>ms</i> )
RT_aver_incor	Mean reaction times of incorrect recognition responses (i.e., Miss and False Alarms) (measured time from trial onset to key press in <i>ms</i> )

## Are We Taking Too Many Pictures? An Investigation of the Impact of Smartphone Photography on Memory"

RT_aver_corr	Mean reaction times of correct recognition responses (i.e., Hits and Correct Rejections) (measured time from trial onset to key press in <i>ms</i> )
Conf_aver_incor	Mean confidence scores for incorrect responses (i.e., Miss and False Alarm) of each participant
Conf_aver_corr	Mean confidence scores for correct responses (i.e., Hit and Correct Rejections) of each participant

### 3. Mnemonics for the data file concerning: Data\_EXPERIMENT 3

#### *Colum labels*

Study

Part no

Name

Surname

Gender

Age

Occupation

Counterbalance

Recog Timing

Condition

PMPUQ-TOT

SAS-TOT

Flanker

Recog\_ACC

Recog\_NoResp

Recog\_RT

Conf\_rate

Confid\_RT

#### *The cell values refers to...*

Number of study (=3) in the Experiment

The code assigned to each participant

Anonymised column

Anonymised column

Gender of each participant

Age of each participant

Occupational status of each participant

Counterbalancing of the six different stimuli blocks used for encoding and recognition (as described in Materials of the main manuscript) between participants

Assigned condition of "Type for Recognition" as described in the main manuscript  
infinite = self-paced  
3 sec = time constraint

Experimental groups:  
8-photo = multiple-photo group  
no-photo = no-photo group

Total score of the Problematic Mobile Phone Use Questionnaire (PMPUQ) of each participant

Total score of the The Smartphone Addiction Scale Short Version (SAS) of each participant

Total score of the Flanker-task of each participant

Summed accuracy scores (i.e., Hit and Correct Recognition) of each participant

Missing values in the recognition task of each participant

Mean reaction times in *ms* of overall recognition responses (measured time from trial onset to key press in *ms*)

Mean overall confidence scores for each participant

Mean reaction times of overall confidence responses (measured time from trial onset to key press in *ms*)

## Are We Taking Too Many Pictures? An Investigation of the Impact of Smartphone Photography on Memory"

RT_aver_incor	Mean reaction times of incorrect recognition responses (i.e., Miss and False Alarms) (measured time from trial onset to key press in <i>ms</i> )
RT_aver_corr	Mean reaction times of correct recognition responses (i.e., Hits and Correct Rejections) (measured time from trial onset to key press in <i>ms</i> )
Conf_aver_incor	Mean confidence scores for incorrect responses (i.e., Miss and False Alarm) of each participant
Conf_aver_corr	Mean confidence scores for correct responses (i.e., Hit and Correct Rejections) of each participant
acc	Summary accuracy scores (i.e, Hit and Correct Rejections) of each participant for complete vs. zoomed-in images
rt	Mean reaction times (measured time from trial onset to key press in <i>ms</i> ) of each participant for complete vs. zoomed-in images
detail	Type of stimuli presented referring to the divided accuracy (acc) and RT (rt) scores nozoom = complete images zoom = zoomed-in images