




Article: Pfister, R., Schwarz, K. A., Wirth, R., & Lindner, I. (2017). My command, my act: Observation inflation in face-to-face interactions. *Advances in Cognitive Psychology*.

Background: The computer program underlying these experiments is run three times per participant, producing individual logfiles for Phase 1, Phase 2, and Phase 3, respectively. Of main interest is the logfile of Phase 3 (the memory test) and relevant information from the preceding phases (e.g., if participants erroneously performed an action instead of reading the action statement in a “read” trial of Phase 1) is incorporated in this logfile. Additional lapses during the experimental session that were noted by the experimenters need to be incorporated in this logfile manually and a corresponding preprocessed version of the data set is the main data file that we used for the analyses. All following variables relate to the preprocessed file whereas raw files and SPSS syntax for preprocessing are provided in the *Raw* folder.

An alternative analysis using hierarchical linear modeling (via the lme4 package in R) had been present in previous versions of this article but was deleted in the course of the peer review process at the *Journal of Applied Research in Memory and Cognition*. Though the corresponding revised manuscript was rejected for unknown reasons (and without re-review), we decided to keep this analysis out of the results section for future submissions. Its results obviously mirror the main findings of the traditional analyses of variances (ANOVAs) that are reported in the manuscript.

File list

Icon key:  = R code;  = tab-delimited data;  = SPSS syntax

	Raw	Folder containing raw data for each phase and the corresponding SPSS syntax used for preprocessing.
	Ol_Commands_HLM.R	R code to run the described HLM analyses
	Ol_Commands_Preprocessed.dat	Data of Exp. 1 and 2
	Ol_Commands_Syntax.sps	Syntax for Exp. 1 and 2

Variable coding

Subject	Subject number; 101-125 = Experiment 1, 201-225 = Experiment 2
Group	1 = Experiment 1, 2 = Experiment 2
Session	Phase of the experiment (1-3)
Trial	Continuous trial number
Mode	5 = Memory test; the raw logfiles also include values 0 = read in Phase 1, 1 = performed in Phase 1, 3/4 for commanding or observing an action in Phase 2 that had been read (3) or performed (4) in Phase 1
Item	Item number; see below for a list of all items
Phase1_Performed	0 = read in Phase 1, 1 = performed in Phase 1
Phase2_Present	0 = item had not been present in Phase 2; 1 = item had been present
Phase2_TimesChosen	Number of times this items had been chosen (/observed) in Phase 2
Phase2_OddCount	Number of trials that the experimenter had terminated with the return key (indicating that something odd had happened)
Phase2_Occurances	Number of trials in which this item had been on screen as an option in Phase 2
Choice	Response of the participant; 1 = "Yes, I did perform this action", 2 = "No, I didn't"
RT	Response time for this item [ms]
RTTime	Program runtime when response was registered [ms]
ACC	1 = correct response, 0 = wrong response
tfilter	1 = use this trial for analysis, 0 = don't use (error or some other odd circumstances in the preceding phases)
YesIDid	Recoded response; 1 = yes, 0 = no

Raw data

The variables in the raw data are generally similar to the variables above. Additional variables include the time it took the participants to read or perform the action in Phase 1 (PT, PTTime in the logfile _Session_1.dat) and the time it took the experimenter to act out the action (PT, PTTime in the logfile _Session_2.dat). The variable odd registers if something odd had happened (1) or not (0), the variable Choice registers which item had been chosen, and the variable Choice_12 registers whether the first or second item on screen had been chosen.

Item List

Item Number	German Original	English Translation
1	Spielzeugauto anschubsen	Move the toy car
2	Ei in Eierbecher setzen	Put the egg in the egg cup
3	Taschentuchpackung öffnen	Open the package of pocket tissue
4	Flasche schütteln	Shake the bottle
5	Band aufwickeln	Recoil the ribbon
6	Bleistift spitzen	Sharpen the pencil
7	Wecker verstellen	Reset the alarm clock
8	Tesafilm abreißen	Tear off some adhesive tape
9	Löffel polieren	Polish the spoon
10	Seife in Dose legen	Put the soap in the tin
11	Papier lochen	Punch holes into the paper
12	Garn abschneiden	Cut off some twine
13	Mit Taschenlampe leuchten	Turn on the flashlight
14	Küchentuch falten	Fold the kitchen towel
15	Schachtel öffnen	Open the box
16	Tintenpatrone entnehmen	Take the ink cartridge
17	Perlen schütteln	Shake the beads
18	Klingel betätigen	Ring the bell
19	Gummiband dehnen	Stretch the rubber band
20	Schwamm wringen	Mangle the sponge
21	Toilettenpapier abreißen	Tear off some toilet paper
22	Teebeutel aus Tasse nehmen	Take the tea bag from the cup
23	Würfel werfen	Roll the dice
24	Sonnenbrille zusammenklappen	Fold the sunglasses
25	Teelicht in Glas stellen	Put the candle in the glass
26	Nudelpackung hochheben	Lift the package of pasta
27	Zahnbürste in Becher stellen	Place the toothbrush in the holder
28	Mäppchen öffnen	Open the pencil case
29	Papier stempeln	Stamp the paper
30	Buch aufschlagen	Open the book
31	Deo aufschrauben	Unscrew the lid of the deodorant
32	Kappe vom Textmarker nehmen	Take the lid off the highlighter
33	Stecker und Dose zusammenfügen	Connect plug and socket
34	Papier zerreißen	Tear apart the paper
35	Büroklammer verbiegen	Bend the paper clip
36	Fernbedienung betätigen	Press a button of the remote control
37	Karte in Umschlag stecken	Put the card into the envelope
38	Schloss schließen	Close the lock
39	Becher vom Stapel nehmen	Take a plastic cup from the stack
40	Pfeffermühle drehen	Use the pepper mill
41	Bonbon nehmen	Take a candy
42	Gabel auf Teller legen	Place the fork on the plate
43	Fingerhut aufsetzen	Put on the thimble
44	Zettel abreißen	Tear off a sheet of paper
45	Heft zusammenrollen	Roll a notebook

46	Taschenrechner anschalten	Turn on the calculator
47	Zollstock auseinander klappen	Unfold the folding rule
48	Knoten in Kordel machen	Knot the cord
49	Gürtelschnalle öffnen	Open the belt buckle
50	Nadel in Nadelkissen stechen	Stick needle in the pincushion
51	Nummer auf Handy wählen	Dial a number on the mobile phone
52	Kugelschreiber auseinander schrauben	Disassemble the pen
53	Sicherheitsnadel öffnen	Open the safety pin
54	Klebenotiz abziehen	Tear off a sticky note
55	Socke umkrempeln	Turn the sock inside out
56	CD aus Hülle nehmen	Take the CD out of its case
57	Streichholz aus Schachtel nehmen	Take a match from the matchbox
58	Karten mischen	Shuffle the cards
59	Handschuh anziehen	Put on the glove
60	Radiergummi verwenden	Use the eraser
