**Codebook for data set „Richter\_Wuehr\_2023\_Exp2”**

General Comments:

* The data set contains 55 files corresponding to 55 cases (i.e., participants); each file thus contains data of one participant. Each file includes 13 variables (columns) and 360 trials (lines).
* Each line contains information (independent variables and dependent variables) from one experimental trial performed by one participant.
* Missing Data (in dependent variables “Registered\_Key”, “Accuracy”, or “RT”) are identified with a “0”.

List of Variables

Variable 1: Program Name

- Name of the program for each experimental condition:

Snarc\_invers06\_poin = invers (location-number) task with incompatible mapping; Snarc\_invers06\_poko = invers (location-number) task with compatible mapping; Snarc\_invers06\_zain = regular (number-location) task with incompatible mapping; Snarc\_invers06\_zako = regular (number-location) task with compatible mapping;

Variable 2: Participant

* Number of participant;

Variable 3: Block

* Number of block: 1 – 3 (Note: block 1 = practice trials; blocks 2-3: test trials);

Variable 4: Trial

* Number of trial within each block (practice block: 1-10; test block: 1-40);

Variable 5: Fixation

- Duration (ms) of fixation point (500 ms in practice block; 400 or 600 ms in test blocks);

Variable 6: Mapping

* Stimulus-Response Mapping: compatible or incompatible;

Variable 7: Stimulus

* Denotes the stimulus in the current trial: digit 1 or 2 in regular (number-location) task; left or right stimulus position in invers (location-number) task;

Variable 8: Task

* Type of SNARC task: Regular (number-location task) or invers (location-number task);

Variable 9: Accuracy

* Accuracy of participant’s actual response (0 = wrong; 1 = correct);

Variable 10: Correct\_Key

* Keypress(es) required for a correct response in the current trial, depending on task and S-R mapping:

regular compatible = digit 1 stimulus – left response, digit 2 stimulus – right response; regular incompatible = digit 1 stimulus – right response, digit 2 stimulus – left response;

invers compatible = left stimulus – 1 keypress, right stimulus – 2 keypresses;

invers incompatible = left stimulus – 2 keypresses, right stimulus – 1 keypress;

Variable 11: Registered\_Key

* Key(s) pressed by participant in the current trial: left or right key in regular (number-location) task; one or two keypresses in invers (location-number) task;

Variable 12: RT R1

* Reaction time (in milliseconds) of the first keypress as measured from the onset of the stimulus display;

Variable 13: RT R2

* Reaction time (in milliseconds) of the second keypress as measured from the onset of the stimulus display;