Info for Experiment 2

Overview of Files

The folder "Experiment 2" contains the following files:

analysis_Exp2.R: Analysis script that gives the main results reported in Zerweck et al. as output

Contrast-rgb-in-candela_Exp2.txt: Table with measured contrast values in rgb and cd/m²

Experiment2_directTask.dat: Contains the data for the direct task in Experiment 2

Experiment2_indirectTask.dat: Contains the data for the indirect task in Experiment 2

Info_Experiment2.pdf: Overview of Files and Description of variables used in Experiment 2

local-lib_Exp2.R: Library with basic functions used in analysis_Exp2.R

analysis_Exp2_output.pdf: Output generated using *source("analysis_Exp2.R")*

Overview of Analyses

To call the main analysis in the programming language R, use:

source("analysis_Exp2.R").

An example of the output generated using R version 3.6.1 (2019-07-05) can be found in the file: *analysis_Exp2_output.pdf*

Info for Experiment 2

Description of the column names used in Experiment 2

Refers to the files *Experiment2_directTask.dat* and *Experiment2_indirectTask.dat*

VP	= subject ID
Trial	= trial number
Group	= assignment of button presses
Task	= Prac for Practice block, Exp for Experimental blocks, Perc = direct task, RTTask = indirect task
Mask1/Mask2	= mask stimulus (random letter string)
Prime	= prime stimulus (number out of 1,4,6,9 in arabic notation (A))
Target	= target stimulus (see Prime)
Congruency	= Incongruent (i.e. prime < 5 & target > 5 or vice versa), Congruent (i.e. prime < 5 & target < 5 or vice versa)
ResponseKey	= key that the participant pressed in this trial
ResponseTime	= Normal (Indirect Task: 100 ms < RT < 1000 ms; Direct Task: 100 ms < RT < 5000 ms)
ResponseError	= correct key press vs erroneous key pressed
Confidence	= only in the direct task: Slider from -100 to 100, "How confident are you about your decision?"
RT.Matlab	= reaction time as measured using Matlab-internal routines. (Served as a control; not as precise as RT.Device → not used in our paper)
RT.Device	= reaction times as measured using the Response PIXX buttons (reported in our paper)
PrimeDuration	= programmed presentation duration of the prime in frames
SOA	= stimulus onset asynchrony
Contrast	= prime contrast in rgb
Mask1Dur/Mask2Dur	= measured presentation duration of masks in ms
PrimeDur	= measured presentation duration of the prime in ms
TargetDur	= measured presentation duration of the target in ms
TimingError	= error tolerated in timing (+/- 10 ms); 0 = no timing error