

Description of the uploaded dataset

This file contains the description of the terms used in the dataset uploaded for the paper: “Meibodi, N., Abbasi, H., Schubö, A. Endres, D., ***Distracted by Previous Experience: Integrating Selection History, Current Task Demands and Saliency in an Algorithmic Model.*** *Comput Brain Behav* 7, 268–285 (2024). <https://doi.org/10.1007/s42113-024-00197-6>.

Note. The data published here are taken from a data set that was analyzed as part of Experiment 1 in Feldmann-Wüstefeld, T., Uengoer, M., & Schubö, A. (2015). You see what you have learned. Evidence for an interrelation of associative learning and visual selective attention. *Psychophysiology*, 52(11), 1483–1497. <https://doi.org/10.1111/psyp.12514>, data publication available at <https://zenodo.org/record/802947#.YJGmXugzbIU>. Contrary to the analyses in this original study (c.f. method section of Expt.1 in Feldmann-Wüstefeld et al. 2015), the data here comprise all trials, including trials with very fast and slow responses.

Below, we provide definitions of the abbreviations used in the present dataset.

- Each row of the excel file represents the data of one trial.
- **Group** stands for group membership which can be either color group (**CG**) or shape group (**SG**).
- **Learning.RT(ms)** stands for reaction time in the learning task in ms.
- **Search.RT(ms)** stands for reaction time in the search task in ms.
- **TrialType** stands for the trial type and can be either trials in the learning task (**learning**), search task distractor-absent (**Targ.only**), or search task distractor-present (**Targ. + Distr**).
- **Learning.ACC and Search.ACC** stand for response accuracy in learning and search trials. ‘1’ stands for correct response and ‘0’ stands for incorrect response.
- **Task** stands for Task type. ‘TaskC’ is a search task and ‘TaskL’ is a learning task.
- **Pos1 to Pos8** stand for the positions of the objects in additional singleton paradigm used by Feldmann-Wüstefeld et al. (2015, Exp.1)

Tables

Table 1












Abbreviations	Descriptions	Visualization
GD	Gray distractor in the learning task	
Blue	Blue singleton in the learning task	
Green	Green singleton in the learning task	
Triangle	Triangle singleton in the learning task	
Pentagon	Pentagon singleton in the learning task	
DD	Gray distractor in the search task – the embedded line was 45° tilted to the left of the vertical midline	
DU	Gray distractor in the search task – the embedded line was 45° tilted to the right of the vertical midline	
TV	Target singleton in the search task – the embedded line was vertical	
TH	Target singleton in the search task – the embedded line was horizontal	
SDD	Red distractor in the search task – the embedded line was 45° tilted to the left of the vertical midline	
SDU	Red distractor in the search task – the embedded line was 45° tilted to the right of the vertical midline	

Table a1. Description of the abbreviations related to the objects presented in Pos1 to Pos8 in the additional singleton paradigm.