

Lisa - WM-DMS

From KnightLab

My info:

Cell: (917) 685-5833; eljohnson@berkeley.edu

***** working memory task for anyone aged 15+, including SU cases *****

***** participant should be engaged and high-functioning *****

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Setup

OS	Software	Toolbox	Photodiode	Speakers	Microphone	Other peripheral(s)
Linux	MATLAB	Psychtoolbox	X	-	-	mouse

Timing

Instructions	Practice	Blocks	TOTAL
2 min (on screen)	5 min	3 min (8 blocks)	30 min

Script

\Lisa\WM-DMS\wm_dms.m

Start MATLAB and make sure Psychtoolbox is installed. It is recommended that you start a new MATLAB session.

Navigate to ~\Lisa\WM-DMS and type: `wm_dms(subject ID)`

Subject ID may be entered as a string (e.g., 'CA99') or number (999).

Procedure

(1) Instructions; (2) Practice trials; (3) Experimental task

Make sure the subject is using his/her dominant hand with the external mouse.

The instructions are presented on a single screen (PRACTICE INSTRUCTIONS...), followed by a short practice block. The practice block will automatically repeat once if accuracy is low, and then the main experiment will start (screen reads: TASK INSTRUCTIONS...).

Instructions presented on the screen:

“On each trial, you will see a set of 3 colored shapes. Pay attention to the shapes and how they appear. After a second, you will see another set of 3 colored shapes. Use the mouse to show whether the 2nd set matches the 1st set.

MATCH = sets are exactly the same

MIS-MATCH = sets are different in any way, including order or position

If you see a big flashing star, ignore it.”

*To stop the task *gracefully*, click the mouse behind the photodiode on a break screen.*

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