Vinitha - Binocular Rivalry Replay - v2

From KnightLab

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Binocular Rivalry Replay Task v2

Aim: To characterize how binocular visual inputs are represented in the brain

Set up

directory ./Vinitha/Binoc_Rivalry_task2_Replay

Connect photodiode to bottom left of screen

Place in front of subject, approx 60 cm away

Experimenter Instructions

Run the function Rivalry_Task2_Run_VR.m with SubID input

>> Rivalry_Task2_run_VR('test_VR')

Screen will prompt for subject ID

Note: for grid cases, ask subjects to respond with hand **IPSILATERAL** to the grid! (IMPORTANT)

%Make sure they are wearing the glasses. They can be taped to the head dressed so they stay put. Responses are made using the keyboard.

Please note if the red glass is on the right or left eye

If subject wears glasses, they can wear them under the red/blue glasses. Please record and ask for their prescription if they know it or just near/far sighted.

The task runs in pairs of Rivalry and Replay blocks. Each pair is considered 1 block and depending on the subject's

performance, the blocks will take between 2-4 minutes. If the subject does not report any rivalry in the block, the replay portion will automatically be skipped (since there is nothing to replay).

There are 10 possible blocks, but please run 5 as a minimum. If subjects are not seeing a lot of switches, please run more blocks. There is a practice of 3 trials of rivalry and replay at the beginning. Feel free to talk to them during this and ask if they are seeing switches. If not, please re-explain the instructions.

Coverage: All ventral temporal and any lateral frontal parietal grids are ideal. Depth cases with frontal coverage also.

Instructions for Subj

In this task you will see a series of images presented on the screen. Press 'f' when you see a face and 'h' when you see a house. Sometime the face and house will appear mixed. If you see both a face and house, press the key for whichever one is more prominent. During each trial, what you see will sometimes change from face to house or house to face. When this happens, press a button 'f' or 'h' indicating what you currently see. Try not to move your eyes during the experiment and keep them centered on the plus sign.

Setup

OS	Software	Toolbox	Photodiode	Speakers	Microphone	Other peripheral(s)
Linux	MATLAB	Psychtoolbox	X	-	-	glasses R/B

Timing

Instructions	Practice	Blocks	TOTAL
1 min (both screen and oral)	1 min	2.5-4 min (5-10 blocks)	Paced by subj min

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