

Shlomit - temporal expectations

From KnightLab

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Overview

This is an experiment on temporal expectations. Each trail starts with a beep sound (cue, warning signal) which is followed by vocalization of GOO or GA (target). The participant is asked to press the right arrow for one of these sounds and the left arrow for the other. There are two types of blocks (alternating): fixed and random. In the fixed blocks there are always two seconds between the warning signal the target. In the random blocks this interval changes between 1 and 3 seconds.

Note: A. The patients should be encouraged to respond as fast as they can! Very important that they try! B. It is best if the patients understand the fixed vs. random manipulation and try to use the regularity of the fixed blocks to help them perform faster. It's all in the instructions but it's best to try to explain in verbally as well. If they don't get it, don't worry about it. C. The block types are alternating so best to remind them at the beginning of each block which block type it is (although it's also in the on-screen instructions). Some participants start with fixed and others with random (depending on the subject ID).

Setup

OS	Software	Toolbox	Photodiode	Speakers	Microphone	Other peripheral(s)
Ubuntu	MATLAB	Psychtoolbox	yes	yes	yes	keyboard

Speakers - best if they can be connected directly to provide the triggers. if not working, disconnect and play from laptop speakers. Microphone - as a backup for triggers (put next to the laptop and connect to analog channel) Photodiode - Left bottom corner.

Please try to have the laptop plugged in electricity during recording to improve timing accuracy.

Procedure

Folder: Dropbox/Shlomit

Command to run: ECoG (runs the entire experiment: short practice + 6 blocks)

Addendum: now possible to add hospital abbreviation (e.g. CP, SD etc.)

You will be asked to provide participants number (only integer, no characters). Block number should be set to 6 (by default). Don't change anything else on the GUI window. Key to stop the task: ESC. Press after task response. Sometimes takes a few seconds to respond.

Instructions language can be set to either English (default) or Spanish through the GUI window.

https://knightlab.berkeley.edu/wiki/index.php/Shlomit_-_temporal_expectations

Triggers: Best if external speakers provide the triggers, but use microphone also as a backup (connect it to analogue channel). The photodiode can also be used as a triggers source for backup.

Timing

Instructions	Practice	Blocks	TOTAL
3 min (on screen and reexplain orally)	2 min (5 trails)	18 min (6 blocks)	23 min

Plus any additional information.

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