

Anaïs - Word Expectancy task

From KnightLab

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Overview

- Patient will hear sentences spoken in English.
- After SOME of the sentences, they will see a word on the screen. They should then answer whether the sentence would still be meaningful if the last word in the sentence they heard was replaced with the word appearing on the screen.
- The patient must answer using the right and left arrows on the keyboard, with the index and middle finger on the hand **IPSILATERAL** to the implantation.
- On-screen instructions are first displayed, followed by a repeatable practice and the actual task.
- The WET task consists of 1 training round (4 or 8 trials) and 2 task blocks (42 trials in each).
- Each task block lasts approximately five minutes, separated by a pause (minimum 30 secs).

Setup

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

- If the patient is left handed, please check the laterality of the language if possible, otherwise: do NOT test the patient.

Procedure

- 1. Put the laptop in front of the patient and connect headphones.
- 2. Adjust the volume to make it comfortable for the patient.
- 3. Use keyboard:
 - if **RIGHT-SIDED** implantation, use **RIGHT** hand: left arrow: YES / right arrow: NO.
 - if **LEFT-SIDED** or **BILATERAL** implantation, use **LEFT** hand: left arrow: NO / right arrow: YES.
- 3a. Go in the `_LAUNCHER`, double-click on *Anais_WordExpectancy*, and choose *Run in Terminal*

- 3b. Or open MATLAB, go to *Dropbox/Anaïs/WordExpectancy_task_Final_SEEG_Eng/*, and Run *WordExpectancy_task_SEEG.m*.
- 4. Questions / input asked when starting the task:
 - Participant number: patient number
 - Session number: 1 for first run
 - Laterality of the implantation – r for right, l for left, b for bilateral
 - If a prompt appears asking you to confirm whether saving/training/triggers should be switched off – enter 1.
- 5. Instructions: After the welcome message, the participant is asked to go through the instructions.
- 6. Practice: After 4 training sentences, the participant is asked whether he/she wants to continue practicing or move on to the task.
 - YES continues the training (4 new sentences).
 - NO moves on to the experiment.
- 7. Starting the task: After finishing the practice, the patient can start the task by pressing any key.
- 8. Pausing or aborting the task: press ESC during a trial, either before or after they hear the sentence (you cannot cancel during a sentence).
 - To continue the task, press the SPACE BAR.
 - To abort the task and shut it down properly, press ESC again.
- 9. If the task is aborted with ESC and restarted and you do not want to repeat the instructions and training, but rather go directly to the experiment: go to the GENERAL SETTINGS section in the script, set training = 0, and confirm with 0 when a prompt appears. Please remember to reset the general settings after the task is done.

Make sure that participant number and SEEG/response hand stay the same. Only the session number must be changed (e.g. 2 for 2nd run).

Thanks for recording!

Timing

Instructions	Practice	Blocks	TOTAL
2 min (on screen)	1 min	5 min (2 blocks)	~15 min

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 Categories: Experimental Task | Current Task

- This page was last modified on 23 July 2019, at 23:43.