EEG Recording Checklist – SWOP

Jeremy Yeaton

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Prior to arrival

- 1. Print:
 - Consent form
 - Information sheets
 - Payment sheet
 - LHQ
- 2. Fill syringes with gel
- 3. Assign participant number
- 4. Run stimShuffle script
 - (a) Launch Anaconda prompt
 - (b) cd Desktop/Experiments/eprime
 - (c) python stimShuffle.py
 - (d) Input participant number when prompted
- Launch E-Prime (experiment file: selfpacedreadingwideJY.es2)
- 6. Change instructions for the current subject
- 7. Connect EEG system to fiber optic cable
- 8. Confirm sampling rate at 512 Hz (1/32) (Decimation)
- 9. Set ActiView config file as BILSWED
- 10. Confirm settings:
 - $\bullet~{\rm High~pass~at~0.05~Hz}$
 - Low pass at 100 Hz
 - Sampling rate at 512 (Decimation 1/32)
 - Reference: None (raw)
- 11. Set up Swedish keyboard (and change keyboard language on the computer)
- 12. Wash hands

Participant arrival and setup

- 1. Welcome participant
- 2. Consent form
- 3. Give participant Language History Questionnaire and a writing utensil

Capping

- 1. Ask them to silence/ turn off their phone and place it in their bag
- 2. Measure head size around and ear-to-ear
- 3. Gel and place mastoid electrodes
- 4. Place cap on participant and put gel in each hole
- 5. Attach electrodes to cap
- 6. Place additional electrodes:
 - (a) Mastoids: Left = EX1, Right = EX2
 - (b) Outer canthi of both eyes (2 electrodes): Left = EX3, Right = EX4
 - (c) Above (EX5) AND below (EX6) left eye (2 electrodes)
- 7. Attach electrodes to system
- 8. Check high and low bandpass (.05 100 Hz)
- 9. Check sampling rate (512 Hz (1/32))
- 10. START
- 11. Resolve electrode issues offset, gel, etc.
- 12. START FILE
- 13. Enter "f_" followed by subject number and initials in "Enter Local Subject Identification"
- 14. Select "A1 B32" under "Save subset:"

- 15. Make sure to check "Add 8 EX electrodes"
- as "f_" followed by the subject number and initials

Experimental session

- 1. Seat participant in chair
- 2. Double check instruction file for subject number
- 3. Remind:
 - Don't blink your eyes during the sen-
 - Leave your hands on the keys
 - Try to move as little as possible
 - There will be pauses every 48 sentences – about every 6 minutes
 - If you need a break in addition to these, press "P" while "???" is on the screen
- 4. IMPORTANT: Press the pink "Paused" button in ActiView to begin recording
- 5. Launch experiment and put in subject num-
- 6. Check in during breaks. Offer water and snacks.

Next steps

- 1. Remove cap
- 2. Swedex SurveyMonkey
- 3. Set SCT timer (30 minutes) on the BioSemi computer so that they can see it: Timer
- 4. SCT SurveyMonkey
- 5. Stroop
 - (a) Launch Anaconda prompt
 - (b) cd Desktop/Experiments/MoDyCoTasks
 - (c) python stroopFR.py
 - (d) Input subject number when prompted
 - (e) Explain task
- 6. Navon
 - (a) In the same Anaconda prompt window:

- (b) python navon.py
- (d) Explain task
- 7. English Proficiency SurveyMonkey
- 8. Debrief
- 9. Copy ID card back/front
- 10. Pay money and sign form

Afterwards

- 1. Copy EEG data to backup
- 2. Copy E-Prime output files to backup edat2 and .txt results files, stimuli files (blocks, instructions, trialorder)
- 3. Copy Stroop and Navon files to backup both .xpe and .xpd files
- 4. Clean up wash syringes, electrodes & cap
- 5. If EEG system battery is low, charge it before putting materials away