Data acquisition & pre-processing

EEG data were recorded and digitized ([ANALOG-TO-DIGITAL CONVERSION RATE]) at the sampling rate of [SAMPLING RATE ] Hz using a [MODEL] amplifier with [NUMBER OF ELECTRODES] [TYPE OF ELECTRODES] electrodes and the online reference [ONLINE REFERENCE NAME]. Prior to recording, a cap was fitted to secure the EEG electrodes in place on the scalp at specific locations according to the [ELECTRODE PLACEMENT SYSTEM (E.G. 10-20)]. [NUMBER OF HEOG ELECTRODES] facial electrodes were placed lateral to the outer canthi of each eye and [NUMBER OF VEOG ELECTRODES] in the inferior and superior areas of the [LEFT/RIGHT OR BOTH EYES] orbit(s) provided recordings of the horizontal and vertical electrooculograms (EOG). Electrode impedances were reduced to < [ELECTRODE IMPEDANCE] kΩ and a [FILTER ORDER] order [FILTER FAMILY/ALGORITHM] ([CUT OFF FREQUENCY], [SLOPE (HALF-AMPLITUDE OR HALF-POWER)]) was applied to the continuous data during recording. Offline, data were first resampled to [SAMPLING RATE] Hz, then [HIGH-PASS/LOW-PASS/BAND-PASS] filtered using a [FILTER ORDER] order [FILTER FAMILY/ALGORITHM] ([CUT OFF FREQUENCY], [SLOPE (HALF-AMPLITUDE OR HALF-POWER)]) applied to the [CONTINUOUS OR SEGMENTED]. Data were subsequently cleaned via visual inspection to remove pauses and breaks during the experiment from the EEG recording. Following this, data was re-referenced offline to the [REFERENCE SITE(S)]. Ocular correction was conducted [AUTOMATICALLY/MANUALLY][[1]](#footnote-1) using the [NAME OF ALGORITHM] algorithm. This resulted in an average of [AVERAGE NO. OF COMPONENTS PER PARTICIPANT] components removed per participant [RANGE]. Data were then segmented into epochs ranging from [BASELINE] to [END OF EPOCH] ms time-locked to [STIMULI], and baseline corrected relative to [BASELINE PERIOD, E.G., -200 MS] ms [PRE-STIMULI] activity. [AUTOMATIC/MANUAL] artifact rejection was conducted to remove extreme values (±[THRESHOLD] μV). [PERCENTAGE OF OVERALL TRIALS REJECTED]% of trials were removed during artifact rejection, and trials in which the participant responded incorrectly were [INCLUDED/EXCLUDED][[2]](#footnote-2), leaving an average of [ACCEPTED TRIALS]/[TOTAL TRIALS] (SD=[STANDARD DEVIATION]) trails in [CONDITION NAME] condition, and [ACCEPTED TRIALS]/[TOTAL TRIALS] (SD=[STANDARD DEVIATION]) trails in [CONDITION NAME] condition. All data pre-processing was conducted in MATLAB, aided by EEGLAB (Delorme & Makeig, 2004) functions, and the full pre-processing scripts can be found online.

1. Note that if non-automatic methods are used, experimenter blinding should be reported. [↑](#footnote-ref-1)
2. You must report accuracy by condition in your paper so as to ensure the reader is able to determine how many trials were rejected due to low accuracy, and how many due to artifact rejection. [↑](#footnote-ref-2)